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ABSTRACT

This document is part 2 of the workbook for grade 2 pupils in the Comprehensive Instructional Management System, a unified mathematics curriculum for kindergarten through grade 7. Each objective is developed by a variety of strategies, with mastery of objectives diagnosed through a testing component. The activities in the student workbook are designed to provide practice in mastering the performance objectives, following the sequence in the teacher's manual. Over 125 performance objectives are included in this part of the grade 2 workbook, designed to develop measurement, fraction, numeration, graphing, and computational skills and concepts. (MNS)

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CIMS

COMPREHENSIVE INSTRUCTIONAL MANAGEMENT SYSTEM

A Cyclical Mathematics Curriculum

Workbook Part 2

NEW YORK CITY BOARD OF EDUCATION
OFFICE OF CURRICULUM DEVELOPMENT AND SUPPORT
DIVISION OF CURRICULUM & INSTRUCTION

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FOREWORD

The Comprehensive Instructional Management System (CIMS) is a unified mathematics curriculum for grades K-7. The curriculum is cyclical in design, and reflects the most recent New York City and New York State guidelines.

Utilizing the experience of our system's teachers, we have developed a teacher-designed curriculum that includes a rich selection of classroom-tested successful mathematics activities. The major goal of the CIMS mathematics project is to provide the classroom teacher with a well-structured, objective-based curriculum. All objectives are supported by a variety of strategies. Student mastery of these objectives is readily diagnosed through the system's testing component.

The curriculum format is structured to allow the teacher to determine the ability level of the students in the topic under study, and to permit the students to move forward at their individual rates. Each module of instruction provides the teacher with a set of related performance objectives. These objectives are supported by activities which probe and develop the students' readiness to undertake new skills and concepts. Further reinforcement is given to mastery of the objectives through accompanying student workbooks.

It is hoped that this curriculum will not only assist teachers in developing vital mathematics instruction, but will serve to expand and enrich students' mathematics skills.

Charlotte Frank

Charlotte Frank,
Executive Director
Division of Curriculum and Instruction

ACKNOWLEDGMENTS

The Comprehensive Instructional Management System (CIMS) was developed as a project of the Division of Curriculum and Instruction, Charlotte Frank, Executive Director. Dr. Peter Negroni, Community School Superintendent CSD 12; Dr. Harvey Garner, Community School Superintendent CSD 18; Carlos Edwards, Community School Superintendent CSD 23, and Joseph Pacheco, Community School Superintendent CSD 32 supervised the overall development of the CIMS program within their respective districts.

Morris Freedman, Director of the Office of Curriculum Development and Support; Irwin Kaufman, Director of Mathematics; Kenneth Bates, Director of CIMS; Maria DeSalvio, Assistant Director of Mathematics; Arthur Flug and Doreen Genkin, Assistant Directors of CIMS and Gene Menchini, Program Manager, Distributive Systems, Office of Data Processing Coordination provided overall supervision of this project.

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Allan Dobrin, Office of Chief Administrator; Bebe Bernstein, Administrator, Curriculum Development Unit of the Office of Program Development and Geraldine Silver and Susan Wieder, Special Education Coordinators provided guidance and support in addressing these special needs.

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To The Teacher:

The activities in the CIMS student workbook are designed to provide the pupils with practice in mastering the curriculum's performance objectives and follows the sequence of the CIMS teacher's manual. Each workbook activity page lists the corresponding performance objective number in the upper left hand corner. The activity page numbers are identical to those found in the CIMS teacher's manual.

To The Student:

This mathematics workbook will help you to practice many of the new ideas your teachers have presented. Each worksheet has examples of the material you have studied in your daily mathematics lesson. As you proceed through this workbook, you will notice that you have learned many skills and will be ready to move on to more difficult ones.

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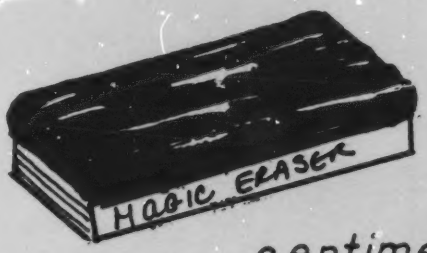
P.O. 2.10.05.01

NAME: _____ CLASS: _____ DATE: _____

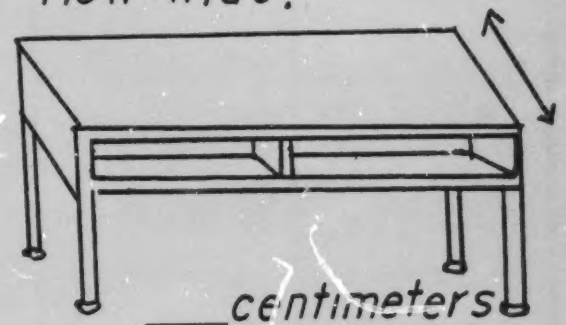
Fill in the blanks.

1. How long?



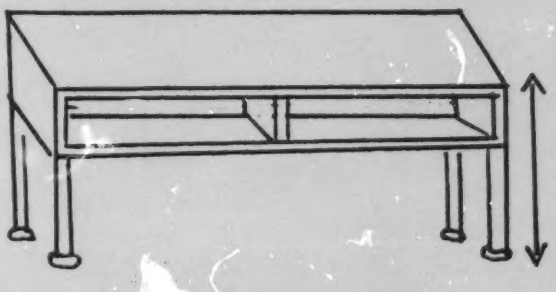
____centimeters

2. How wide?



____centimeters

3. How tall?



____centimeters

4. How tall?

____meters

____centimeters

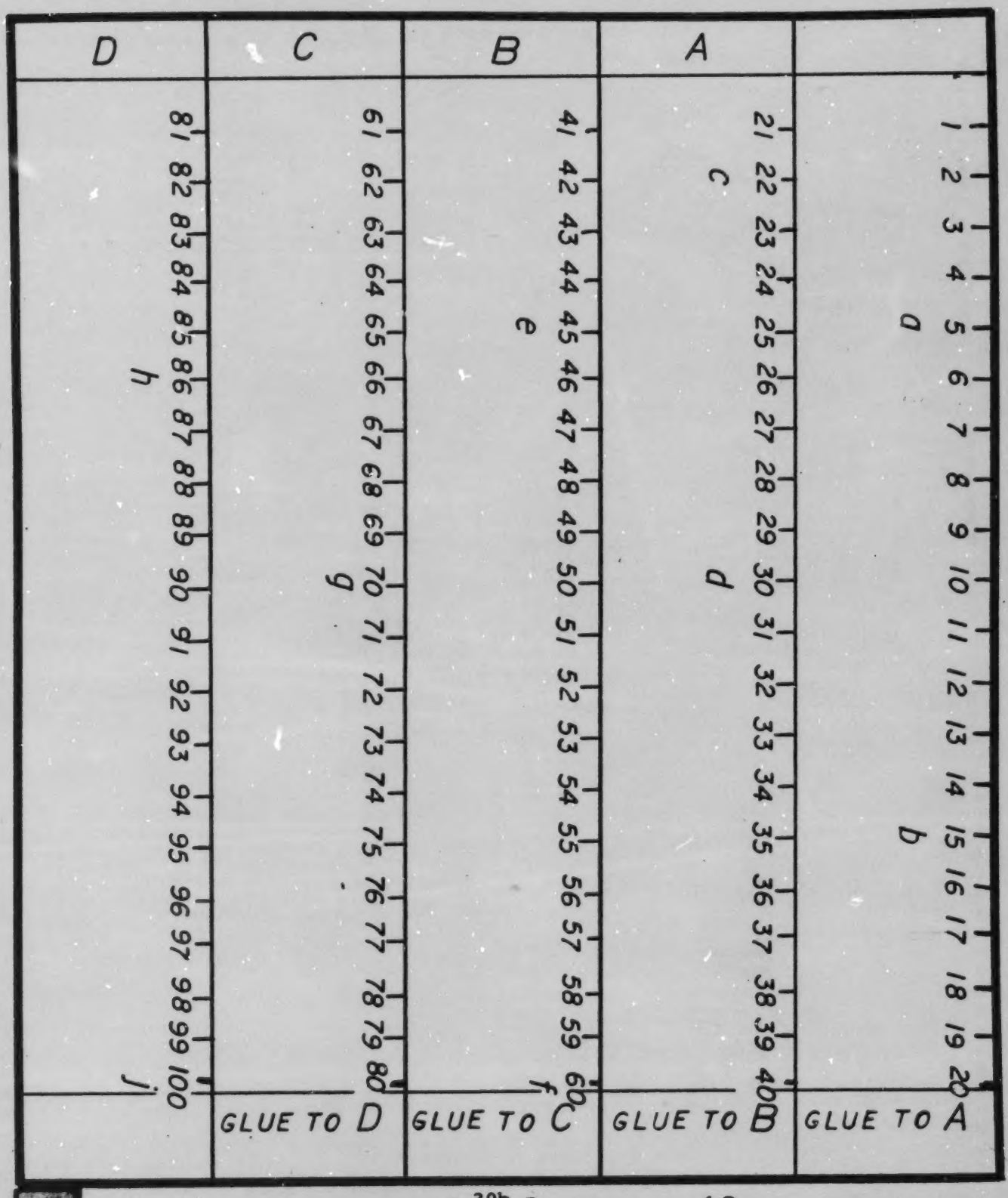
5. Stand, mark your space, then take a big jump. Have a friend help you measure your leap.

101

P.O. 2.10.05.02

NAME:_____ CLASS:_____ DATE:_____

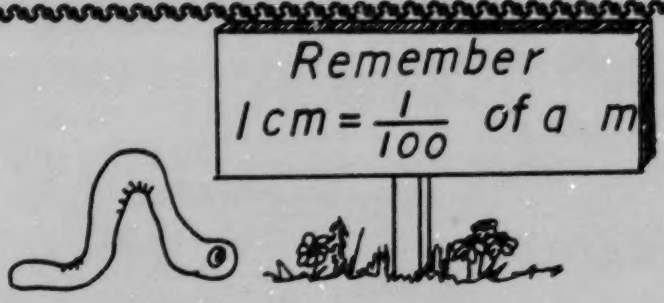
Cut out each strip of paper. Glue them together to make a meter stick.



P.O. 2.10.05.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions as given below.



Identify each of the markings a through j on the meter stick.

a. 5 cm or $\frac{5}{100}$

b. 15 cm or ☐

c. ☐ or $\frac{22}{100}$

d. 30 cm or ☐

e. 45 cm or ☐

f. ☐ or $\frac{60}{100}$

g. 70 cm or ☐

h. ☐ or $\frac{86}{100}$

j. ☐ or $\frac{100}{100}$

Use your meter stick to measure the following objects. Write your answers using cm for centimeters.

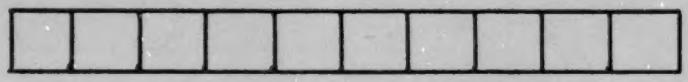
1. Your desk is _____ going across.
2. Your notebook is _____ long.
3. The door is _____ wide.

P.O. 2.10.05.03

NAME:_____ CLASS:_____ DATE:_____

Measure each object in decimeters and centimeters.
Fill in each blank.

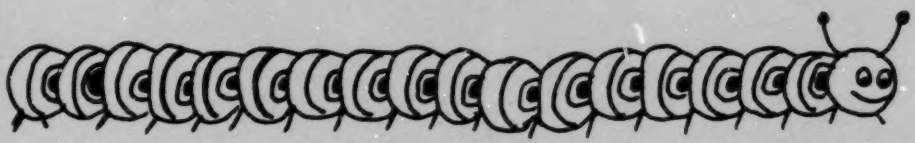
This is one decimeter.

 dm

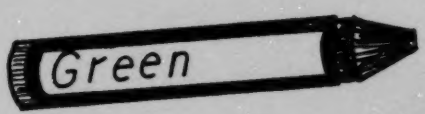
This is one centimeter.

cm

Which is larger? cm or dm

 ___dm___cm

___dm ___cm



___dm___cm

___dm ___cm

P.O. 2.10.05.04

NAME:_____ CLASS:_____ DATE:_____

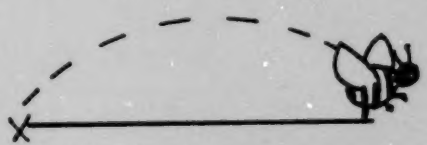
Solve each problem.

Maria and Sam each baked a cake.
Measure to see whose is **taller.**

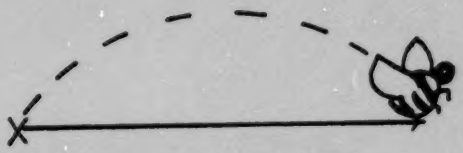
_____cm

_____cm

Bumble Bee made two jumps
Which was longer?



_____cm



_____cm

Joe built a playhouse in his backyard. He wanted to buy a door for it. How should he measure the door?

_____centimeters _____meters

Joe wanted to measure how far it was from the playhouse to his house. What will he use to measure?

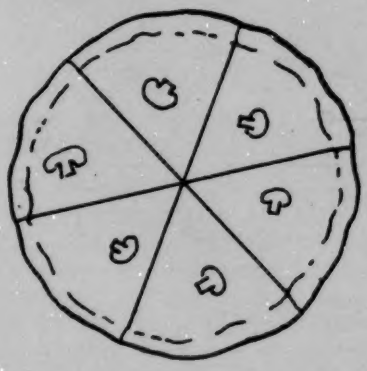
_____centimeters _____meters

P.O. 2.06.01.01

NAME: _____ CLASS: _____ DATE: _____

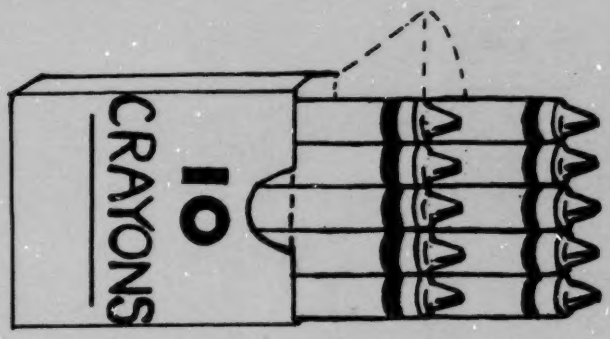
Shade $\frac{1}{5}$

Shade $\frac{1}{5}$



Shade $\frac{1}{6}$

Shade $\frac{1}{6}$



Shade $\frac{1}{10}$

Shade $\frac{1}{10}$

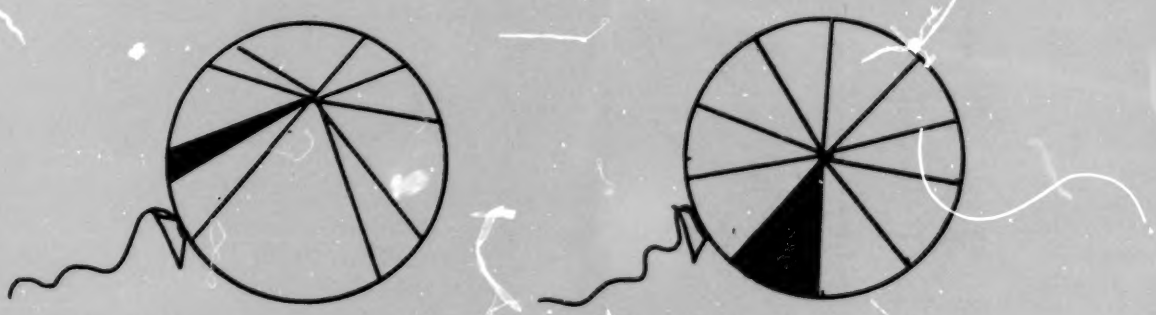
P.O. 2.06.01.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions.

Mark the figure that shows $\frac{1}{5}$.

Mark the figure that shows $\frac{1}{6}$.



Mark the figure that shows $\frac{1}{10}$.

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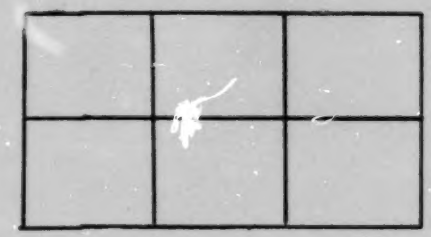
P.O. 2.06.01.02

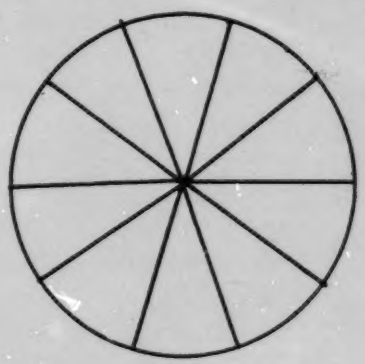
NAME:_____ CLASS:_____ DATE:_____

Color the fraction.

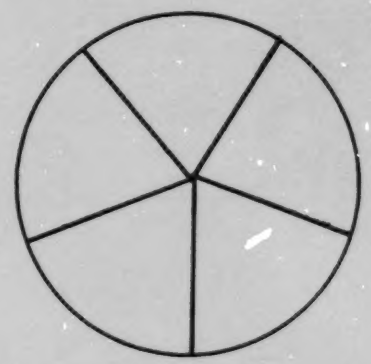


$\frac{1}{6}$

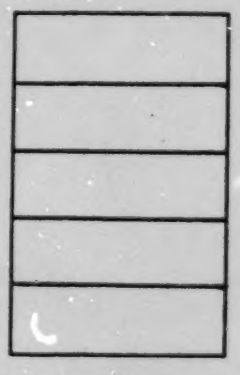
$\frac{1}{10}$



$\frac{1}{10}$



$\frac{1}{5}$



$\frac{1}{5}$

$\frac{1}{6}$

P.O. 2.06.01.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions.

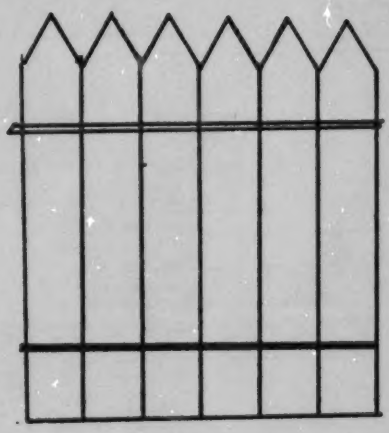
Color $\frac{2}{5}$ of the flower blue.

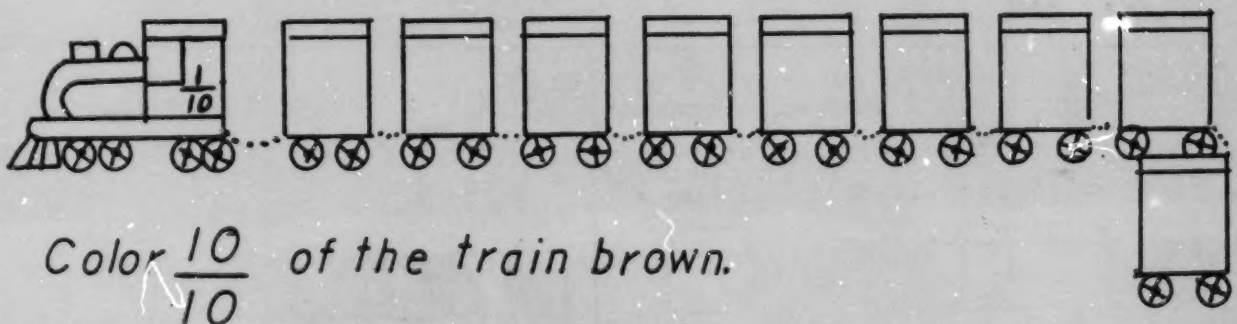
Color $\frac{1}{5}$ of the flower yellow.

Color $\frac{1}{6}$ of the fence red.

Color $\frac{2}{6}$ of the fence green.

Color $\frac{3}{6}$ of the fence yellow.





Color $\frac{10}{10}$ of the train brown.

P.O. 2.06.01.04

NAME:_____ CLASS:_____ DATE:_____

Solve each story problem. Write the correct answer in each box.

John made a design.
He colored $\frac{4}{6}$ of the design.
What part of the design is not colored?

$\frac{2}{6}$

1. James ordered a pizza. He had the pizza cut into 6 equal pieces. What is each part called?

_____

2. Mary divided her granola bar into 5 equal parts. She ate $\frac{2}{5}$, what part did she save?

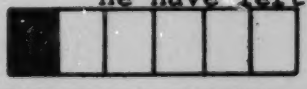
3. Jerry has a kite. $\frac{5}{10}$ of the kite is red. What part is not red?

4. If a cake is to be shared equally by 5 students, what part will each student get?

5. Melissa divided a rectangle into 6 equal parts. She colored $\frac{2}{6}$ of the rectangle. What part is not colored?

6. Mother cut a pie into 10 equal pieces. Dad ate $\frac{3}{10}$. What part of the pie is left?

7. Harold ate 1 part of a granola bar that was divided into 6 equal parts. What part does he have left?



8. Mrs. Johnson colored $\frac{6}{10}$ of her design. What part is not colored?

P.O. 2.10.06.01

NAME: _____ CLASS: _____ DATE: _____

Write the value using a dollar sign ($) and a decimal point (.).

dollars	dimes	pennies
1	0	0

= $1.__

100¢ = ____

= ____

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P.O. 2.10.06.02

NAME: _____ CLASS: _____ DATE: _____

Circle the correct answer.

1. What is this?

one dollar
quarter
dime

2. How many pennies will equal →

100
50
20

3. Which sign do we use for dollars?

¢ $ ∑

4. If you want to buy a ball that costs one dollar which would you use?

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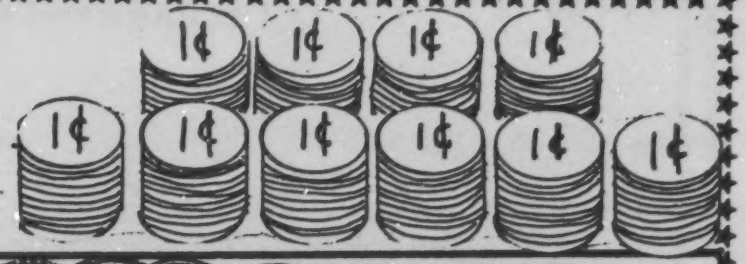
P.O. 2.10.06.03

NAME: _____ CLASS: _____ DATE: _____

Fill in the blanks.



1 dollar = ___ ¢

1 dollar = ___ nickles = ___ ¢

1 dollar = ___ dimes = ___ ¢

1 dollar = ___ quarters = ___ ¢

1 dollar = ___ half dollars = ___ ¢

- 32c -

P.O. 2.10.06.04

NAME:_____ CLASS:_____ DATE:_____

Match each word value to its number value.

One dollar and sixty-five cents	$1.15
One dollar and fifteen cents	$1.16
One dollar and thirty-two cents	$1.65
One dollar and sixteen cents	$1.72
One dollar and fifty-two cents	$1.32
One dollar and seventy-two cents	$1.52

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P.O. 2.02.04.01

NAME:_____ CLASS:_____ DATE:_____

Do the addition with regrouping using expanded notation.

Dimes Pennies

$46 = 40 + 6$

$+\ 6 \quad +\ 6$

$40 + 12 =$

Dimes Pennies

$37 =$

$+\ 6$

Dimes Pennies

$48 =$

$+\ 4$

Dimes Pennies

$69 =$

$+\ 5$

Dimes Pennies

$58 =$

$+\ 6$

Dimes Pennies

$68 =$

$+\ 8$

P.O. 2.02.04.02

NAME:_____ CLASS:_____ DATE:_____

Choose one sandwich and one drink. Write the names of each and the prices. What is the total of the bill?
Check your answer.

SAM'S PRICE LIST

HAMBURGER -	55¢	CHEESE -	28¢
FRANKFURTER -	24¢	EGG -	17¢
HAM -	48¢	TUNA -	46¢
SODA - 9¢		JUICE - 7¢	
MILK - 8¢		LEMONADE - 6¢	

CHOOSE 1 SANDWICH AND 1 DRINK

HAMBURGER 55¢ SODA + 9 TOTAL		

P.O. 2.02.04.03

NAME:_____ CLASS:_____ DATE:_____

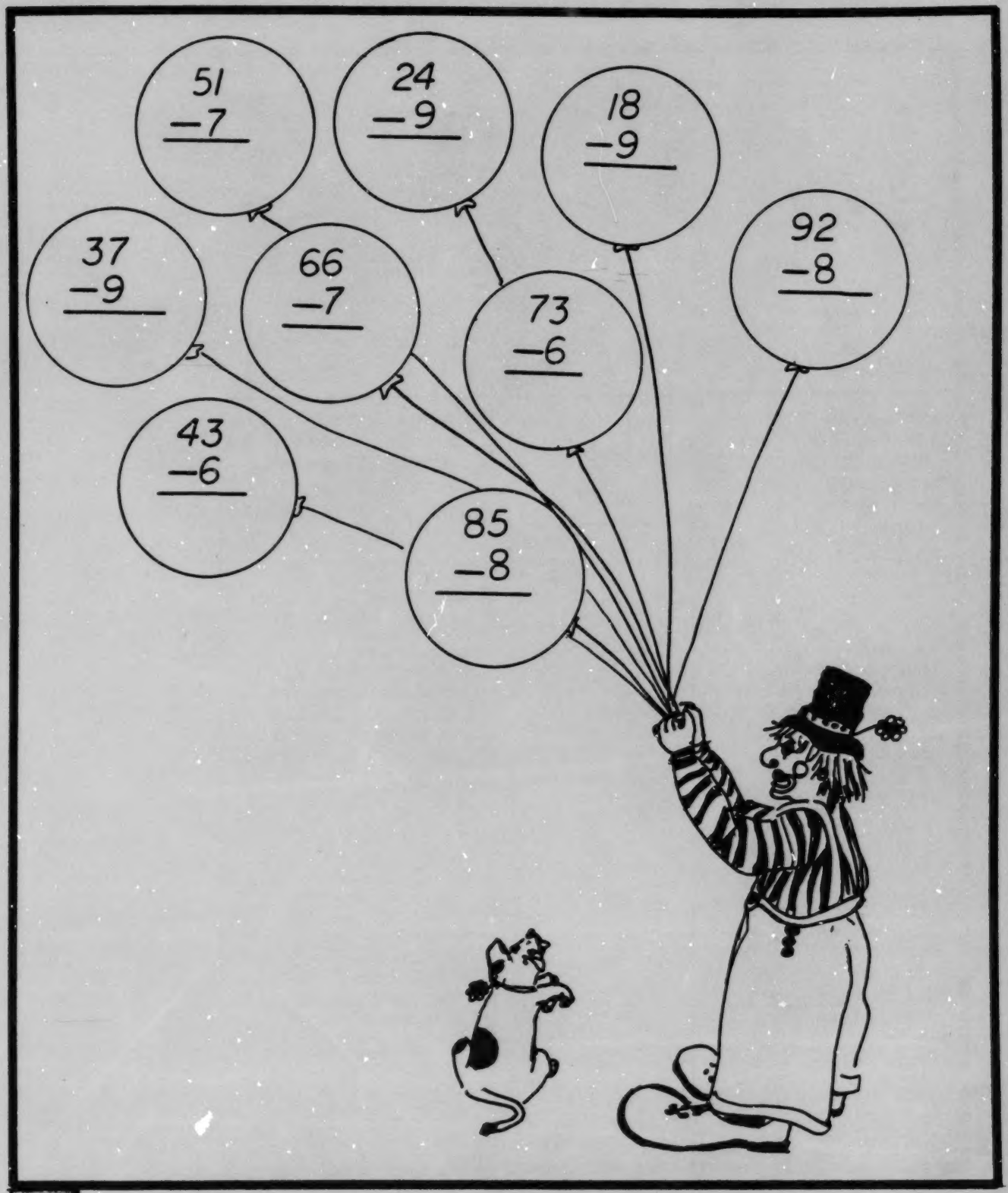
Read the problems. Write the example on the side.
Do the addition and then check your work.

Little Bo Peep counted 12 sheep. Then she counted 9 more sheep. How many sheep did she count in all?	12 +9 ___	The King was in the counting house. He counted 49 gold coins. He had _____ coins in all?	
Jack Horner sat in a corner and pulled out 46 plums. Then he pulled out 7 more plums. In all, he pulled out _____ plums?		She sold 46 seashells and he sold 6 seashells at the seashore. How many shells did they sell in all?	
The old woman in the show had 27 boys and 7 girls. She had _____ youngsters in all?		Simple Simon met a Pieman with 35 muffins and 8 pies. How many cakes did he have altogether?	

P.O. 2.03.02.01

NAME:_____ CLASS:_____ DATE:_____

Release each balloon, after you find the answer, by drawing a line through the string. Check your answers on the bottom of the page.



P.O. 2.03.02.02

NAME:_____ CLASS:_____ DATE:_____

Find out how much money each student has left after each spent some money.

Bill had 24¢ and spent 7¢.

24¢
- 7¢

Bill has _____ left.

Anna had 35¢ and spent 6¢.

35¢
- 6¢

Anna has _____ left.

Sue had 18¢ and spent 9¢.

Sue has _____ left.

Juan had 81¢ and spent 2¢

Juan has _____ left.

Tina had 52¢ and spent 4¢.

Tina has _____ left.

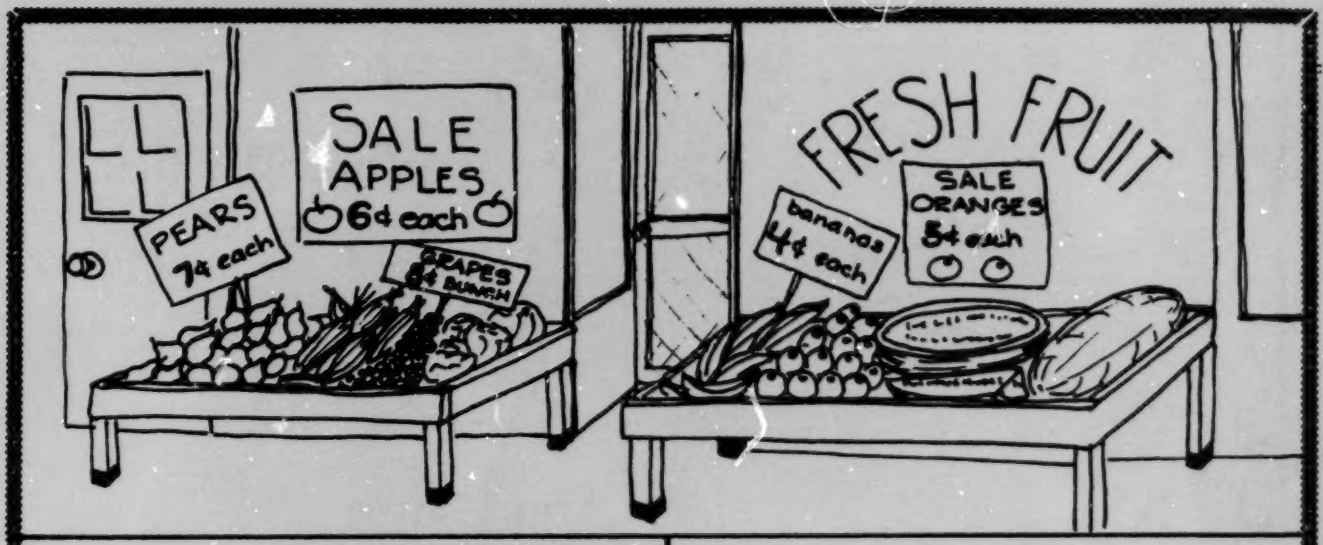
Tony had 73¢ and spent 5¢.

Tony has _____ left.

P.O. 2.03.02.03

NAME: _____ CLASS: _____ DATE: _____

Subtract. Show the regrouping.
Be sure to check your answer.

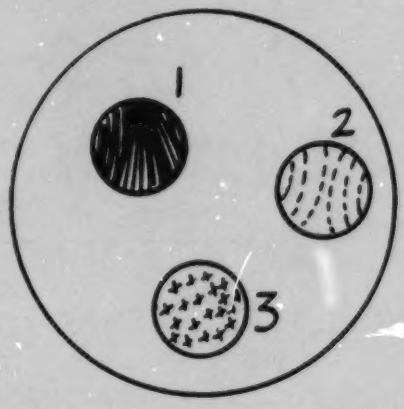


Had 22¢ Bought 6¢ Change 16¢	Check 16¢ + 6¢ 22¢	Had 37¢ Bought ___¢ Change ___¢
Had 51¢ Bought ___¢ Change ___¢	Check	Had 63¢ Bought ___¢ Change ___¢
Had 73¢ Bought ___¢ Change ___¢	Check	Had 47¢ Bought ___¢ Change ___¢
Had 65¢ Bought ___¢ Change ___¢	Check	Had 93¢ Bought ___¢ Change ___¢

P.O. 2.12.01.01

NAME: _____ CLASS: _____ DATE: _____

Answer the questions.



This plate has 3 balls on it.
Each ball has a number, 1 2 3
Close your eyes and choose a ball.

1) What are your chances of choosing number 1 ? ___ out of ____.

2) What are your chances of choosing number 2 ? ___ out of ____.

3) What are your chances of choosing number 3 ? ___ out of ____.

P.O. 2.12.01.02

NAME:_____ CLASS:_____ DATE:_____

Make a three color spinner.
Fill in the blanks.

You will need a three-color spinner.

How many colors are on the spinner?_____.

What are the colors?_____,_____,_____.

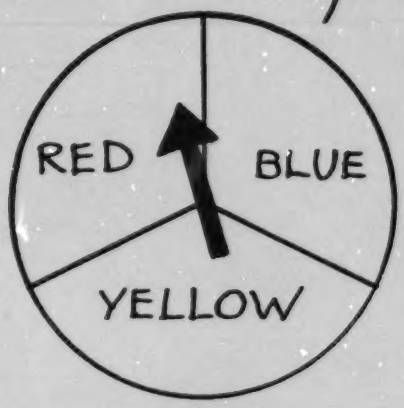
What are your chances of spinning red?____ out of____.

What are your chances of spinning blue?____ out of____.

What are your chances of spinning yellow?____ out of____.

Spin your spinner.
Where does the pointer land? Make a tally mark on the chart for each spin.
Do this 10 times.

RED	YELLOW	BLUE



Which color came out the most?_____

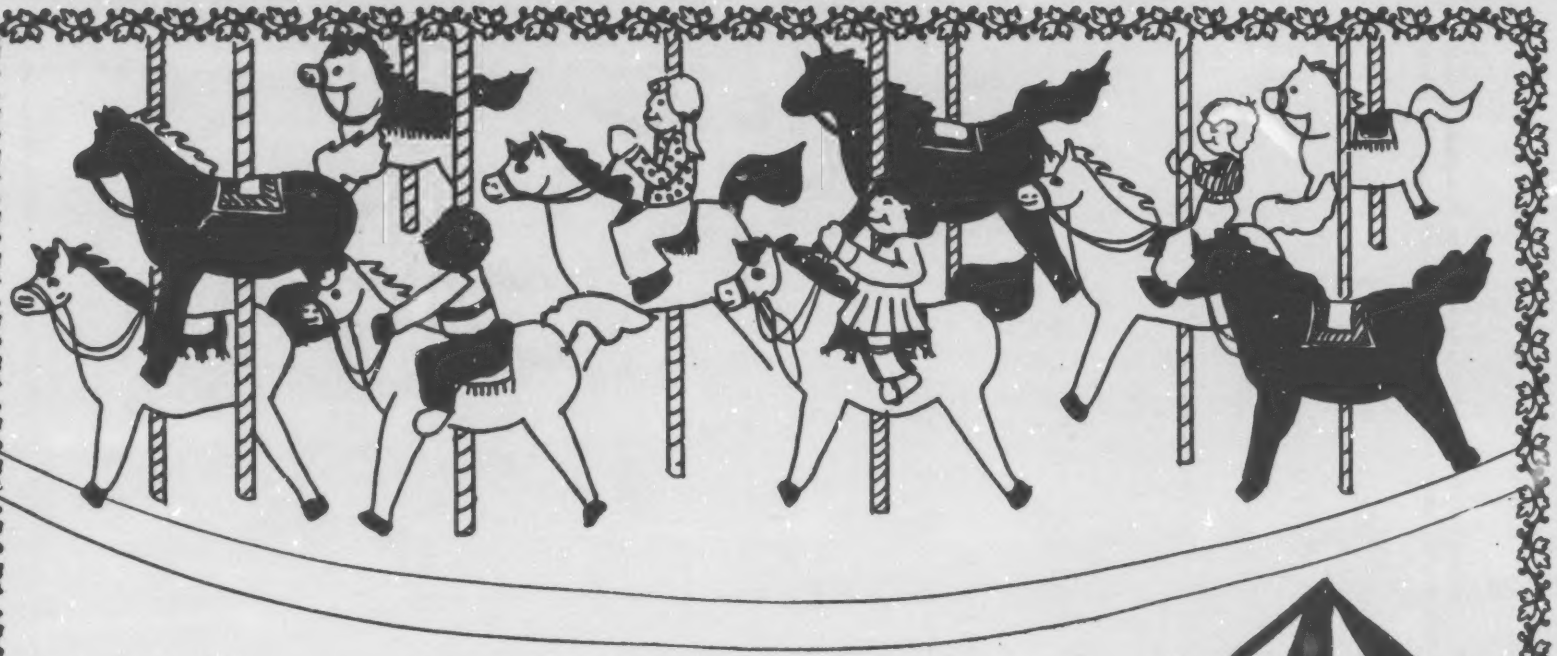
Do it again. Does the same color come out?

_____.

P.O. 2.12.02.01

NAME: _____ CLASS: _____ DATE: _____

Look at the picture. Answer the questions.



1. How many horses are on the carousel? ____

2. Count all the horses that are without a rider. How many? _____

3. Count all the horses with a rider. How many? _____

P.O. 2.12.02.02

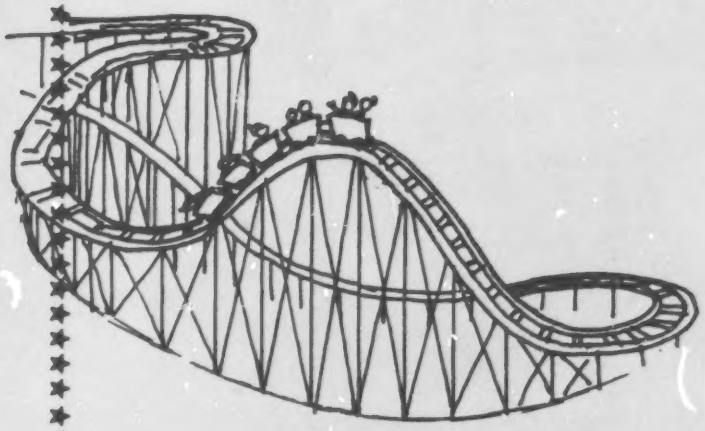
NAME:_____CLASS:_____DATE:_____

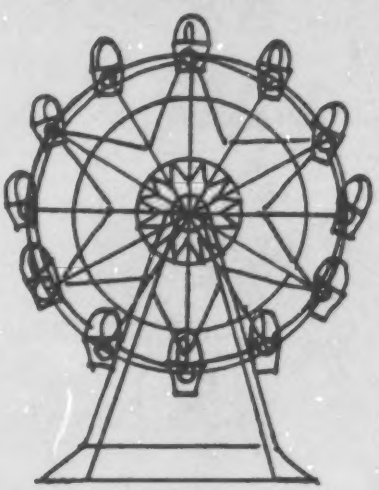
Make a chart to go with the information.

Daisy Park has many exciting rides. Some of the rides are more popular than others. On Sunday there were 12 riders on the roller coaster, 8 riders on the log ride, 10 riders on the ferris wheel and 20 riders on the haunted mermaid ride.

Make a table to show how many riders there were Sunday.

RIDES	NUMBER OF RIDES

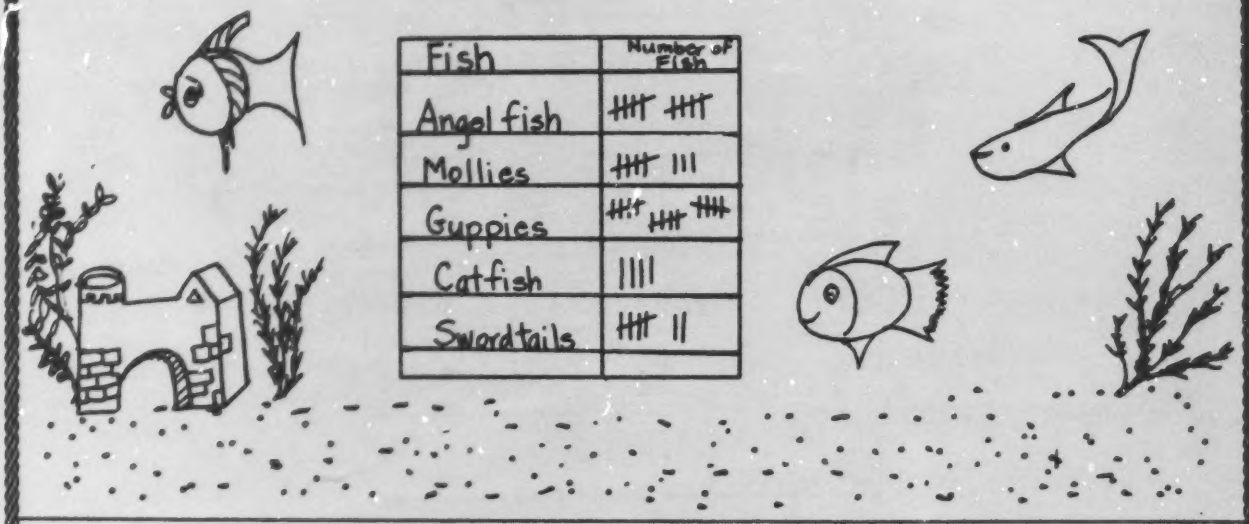




P.O. 2.12.02.03

NAME:_____ CLASS:_____ DATE:_____

Fill in the blanks.



Fish	Number of Fish
Angelfish	𝍸 𝍸
Mollies	𝍸 III
Guppies	𝍸 𝍸 𝍸
Catfish	IIII
Swordtails	𝍸 II

1. Count the number of fish. How many of each are there? Angelfish___ Mollies___ Guppies_____ Catfish___ Swordtails___

2. Which kind of fish has the most?_____

3. Which kind of fish has the least?_____

4. How many more guppies are there than catfish?_____

5. How many more angelfish are there than swordtails?_____

P.O. 2.13.03.01

NAME:_____ CLASS:_____ DATE:_____

Read the chart to help you answer all the questions.

FAVORITE FLAVORS

Flavor	Boys	Girls
Chocolate	15	2
Vanilla	4	13
Strawberry	1	1

(1.) How many boys liked chocolate? _____

(2.) How many boys voted? _____

(3.) How many girls voted? _____

(4.) How many boys and girls voted? _____

(5.) How many more girls liked vanilla than boys? _____

(6.) Which flavors got the same amount of votes? _____

P.O. 2.13.03.02

NAME:_____ CLASS:_____ DATE:_____

Write three questions about the picture.

1. _____

_____

2. _____

_____

3. _____

_____

P.O. 2.13.03.03

NAME:_____ CLASS:_____ DATE:_____

Answer the questions.

November						
S	M	T	W	Th	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

On what day of the week did October end?_____

On what day of the week will December start?_____

Boy	Height in inches
Andy	58 inches
Tom	62 inches
George	50 inches
Pedro	65 inches

Who is the tallest ?_____

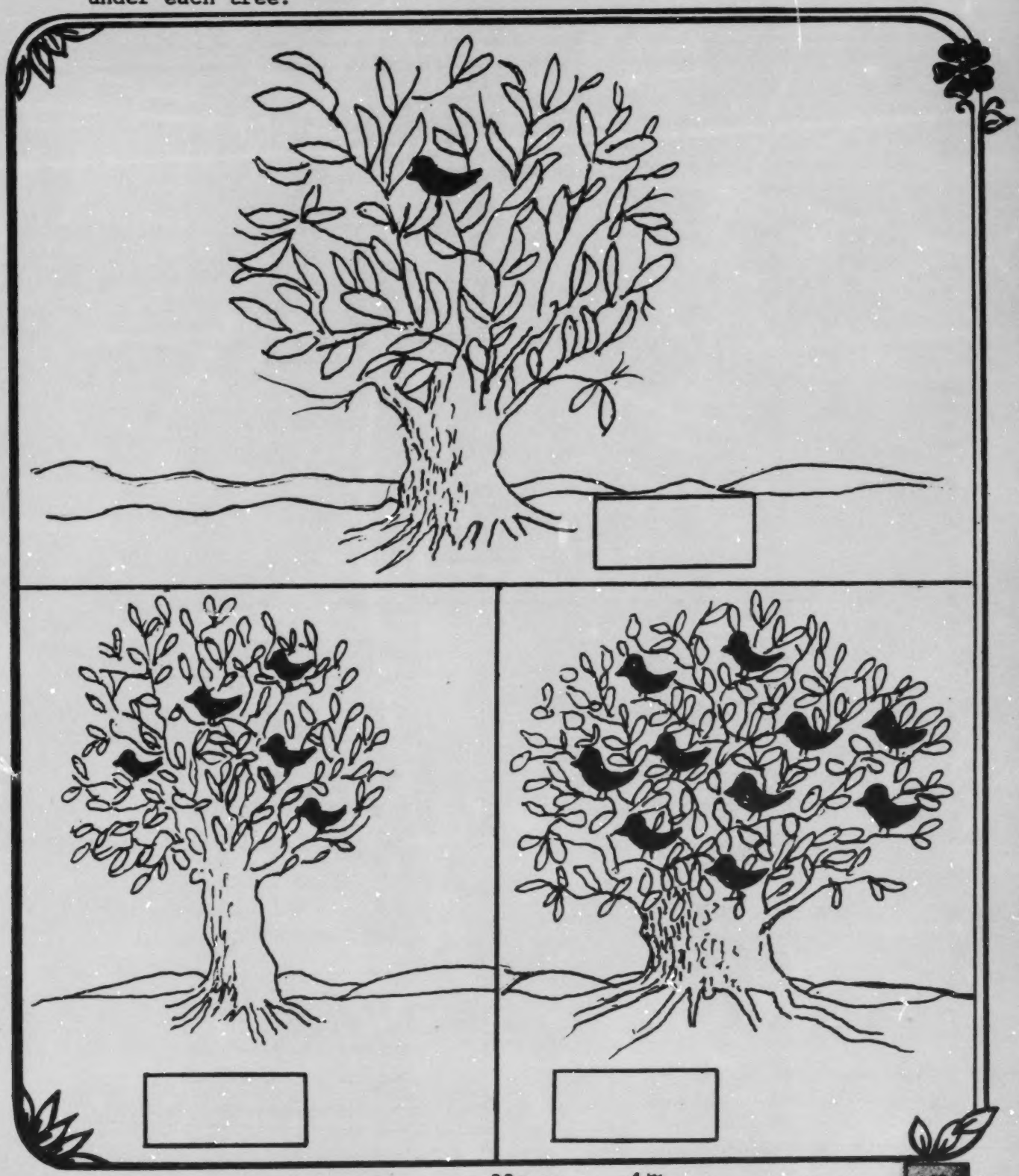
Who is the shortest?_____

Line the boys in size places beginning with the shortest. _____ _____ _____ _____

P.O. 2.01.08.01

NAME:_____ CLASS:_____ DATE:_____

How many birds are hiding in each tree? Count the number of birds in each tree. Write the Roman numeral in the spaces provided under each tree.

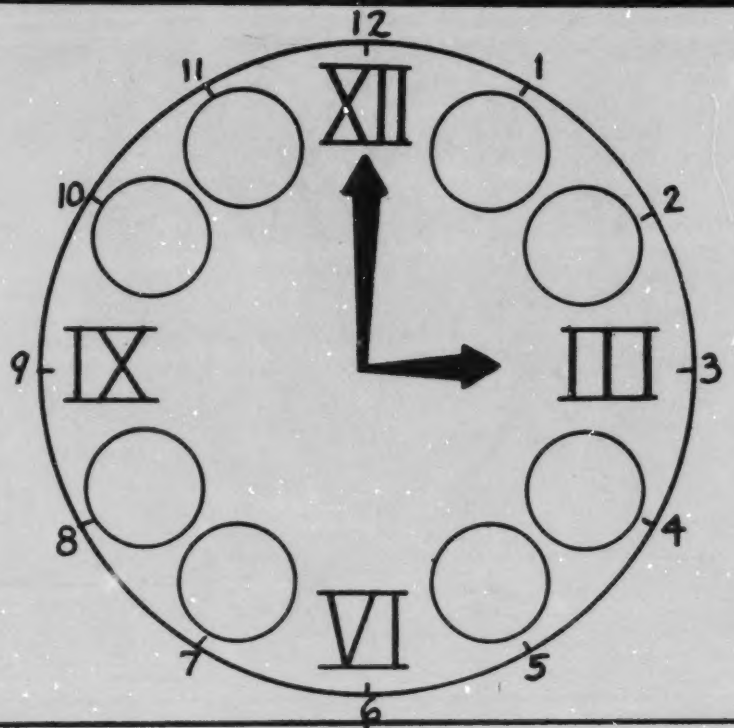


P.O. 2.01.06.02

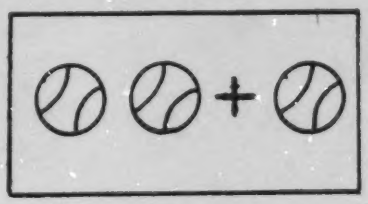
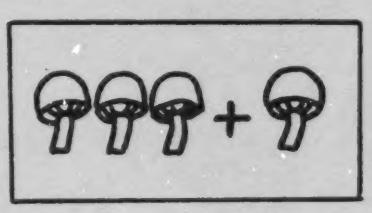
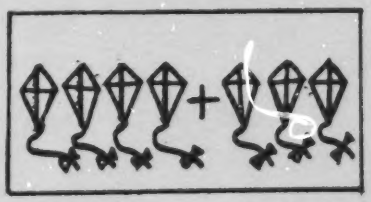
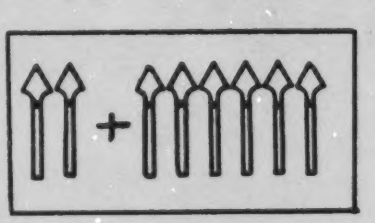
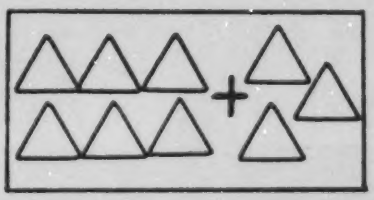
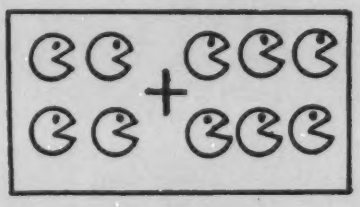
NAME:_____ CLASS:_____ DATE:_____

I. Fill-in the missing Roman numeral on the clock.
II. Solve each problem. Write the Roman numeral for each answer.

I.



II.

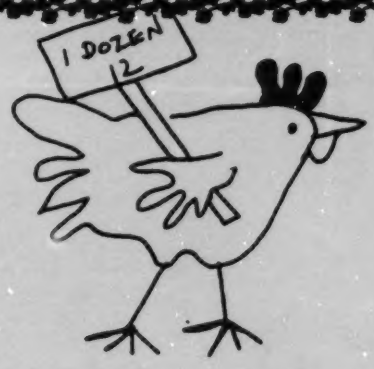







P.O. 2.10.07.01

NAME: _____ CLASS: _____ DATE: _____

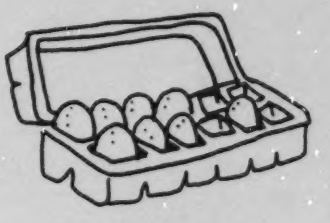
A. Draw the following.

B. Circle the correct answer - more or less?

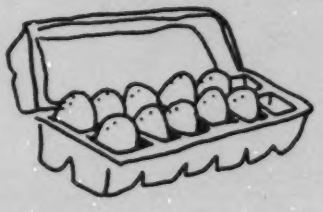


Draw one dozen eggs.

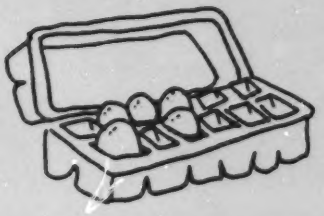
Draw a half dozen eggs.



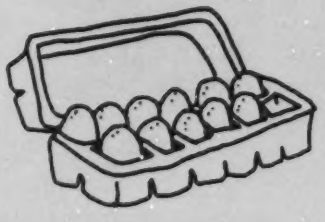
(More or Less) than $\frac{1}{2}$ dozen.



(More or Less) than a dozen.



(More or Less) than $\frac{1}{2}$ dozen.



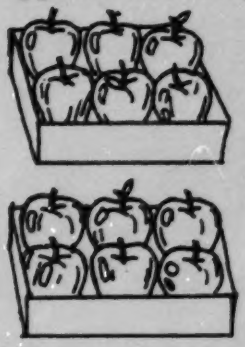
(More or Less) than a dozen.

P.O. 2.10.07.02

NAME:_____ CLASS:_____ DATE:_____

Solve each problem. Be sure to show the work for each problem.

Mother bought 6 apples. Father bought 6 apples. How many apples did they buy?



6

+6

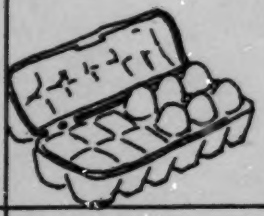
1 dozen

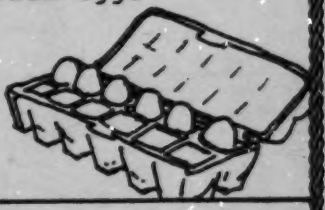
John ate a half dozen eggs. Joe ate a half dozen eggs. How many eggs did they eat?

a half dozen

+a half dozen

a dozen eggs





1) Mother bought a dozen chocolate cookies and a half dozen vanilla cookies. How many cookies did she buy?

2) Henry has 8 red pencils and 4 blue pencils. How many pencils does he have in all?

3) Mrs. Garcia bought a dozen oranges. Her son bought a half dozen more. How many oranges did they buy in all?

4) I ate 4 jelly and 2 cherry doughnuts. How many doughnuts did I eat in all?

P.O. 2.10.08.01

NAME: _____ CLASS: _____ DATE: _____

Make change.

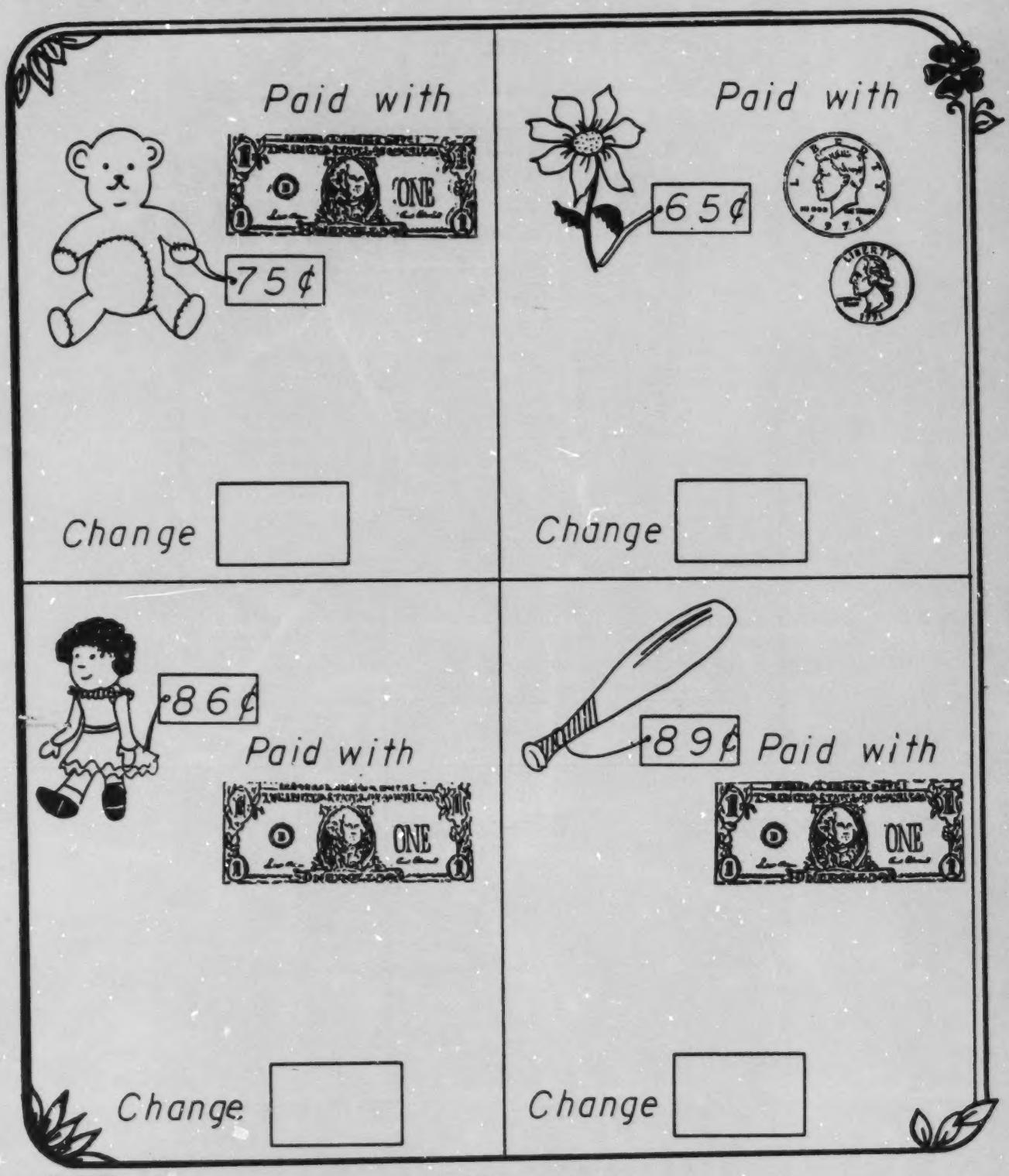
FRUIT STAND

Had	Spent	Change
50¢	37¢	
30¢	18¢	
35¢	26¢	
45¢	25¢	
25¢	11¢	

P.O. 2.10.08.02

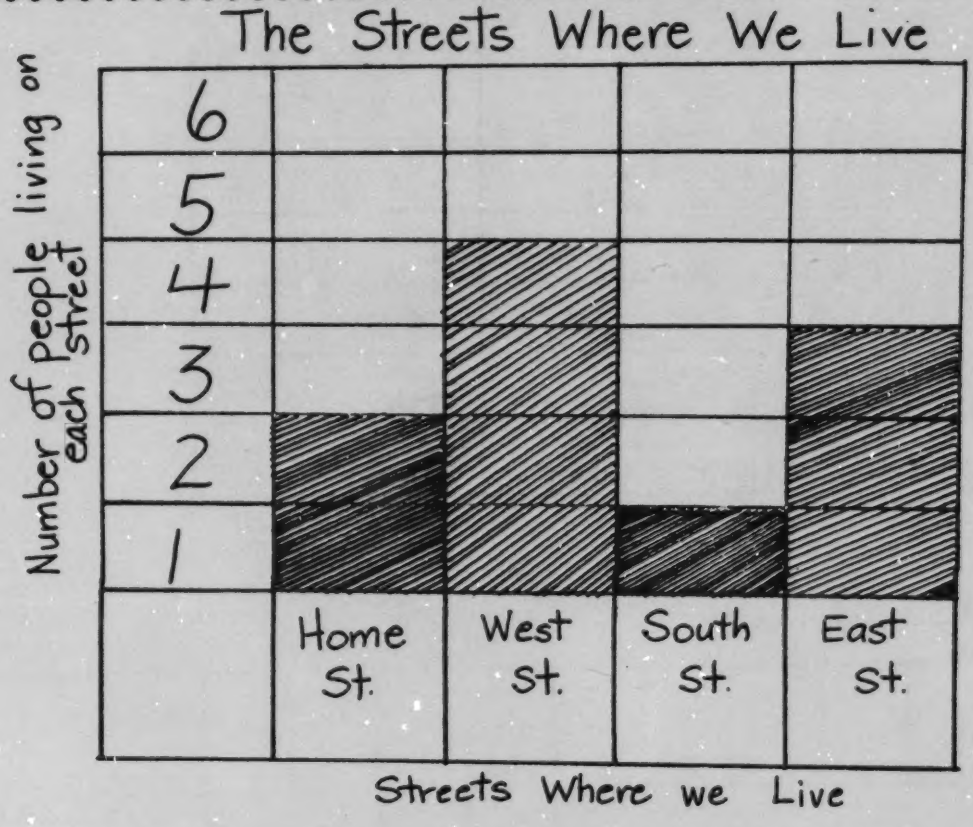
NAME:_____ CLASS:_____ DATE:_____

Find the change for each example.



P.O. 2.12.03.01

NAME: _____ CLASS: _____ DATE: _____



If we study the graph we can find out how many people live on each street.

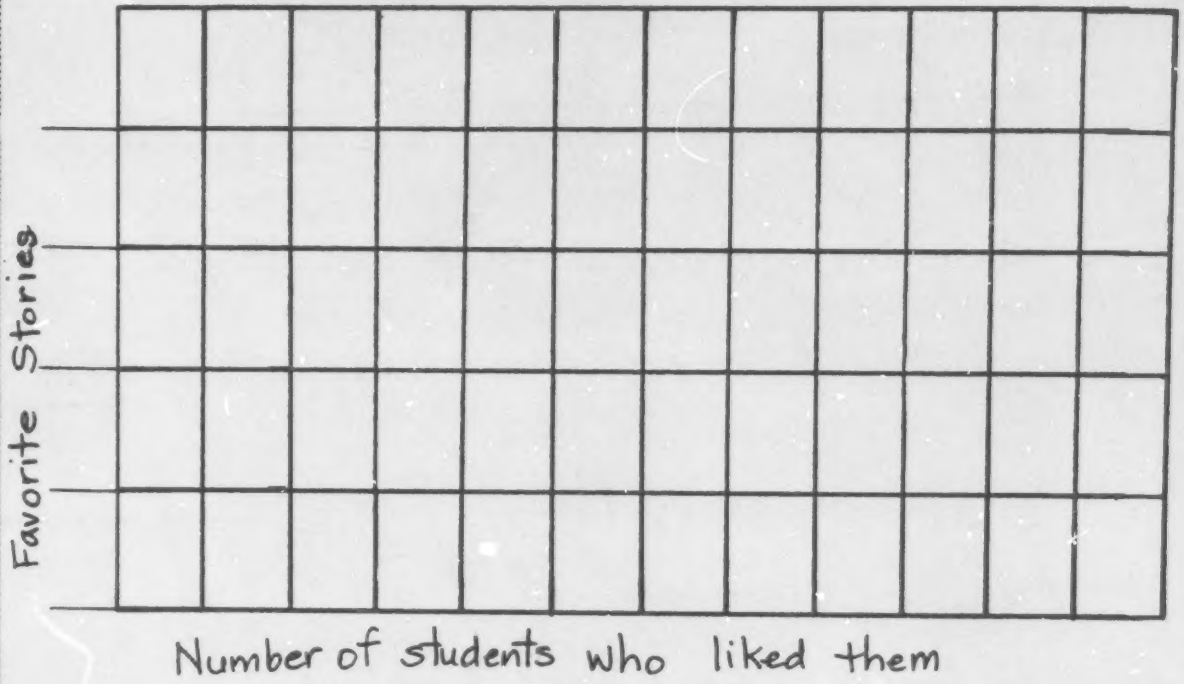
1. How many people live on Home Street ? _____
2. How many people live on East Street ? _____
3. How many people live on West Street ? _____
4. How many people live on South Street ? _____

P.O. 2.12.03.02

NAME: _____ CLASS: _____ DATE: _____

Make a bar graph using the information in the chart.

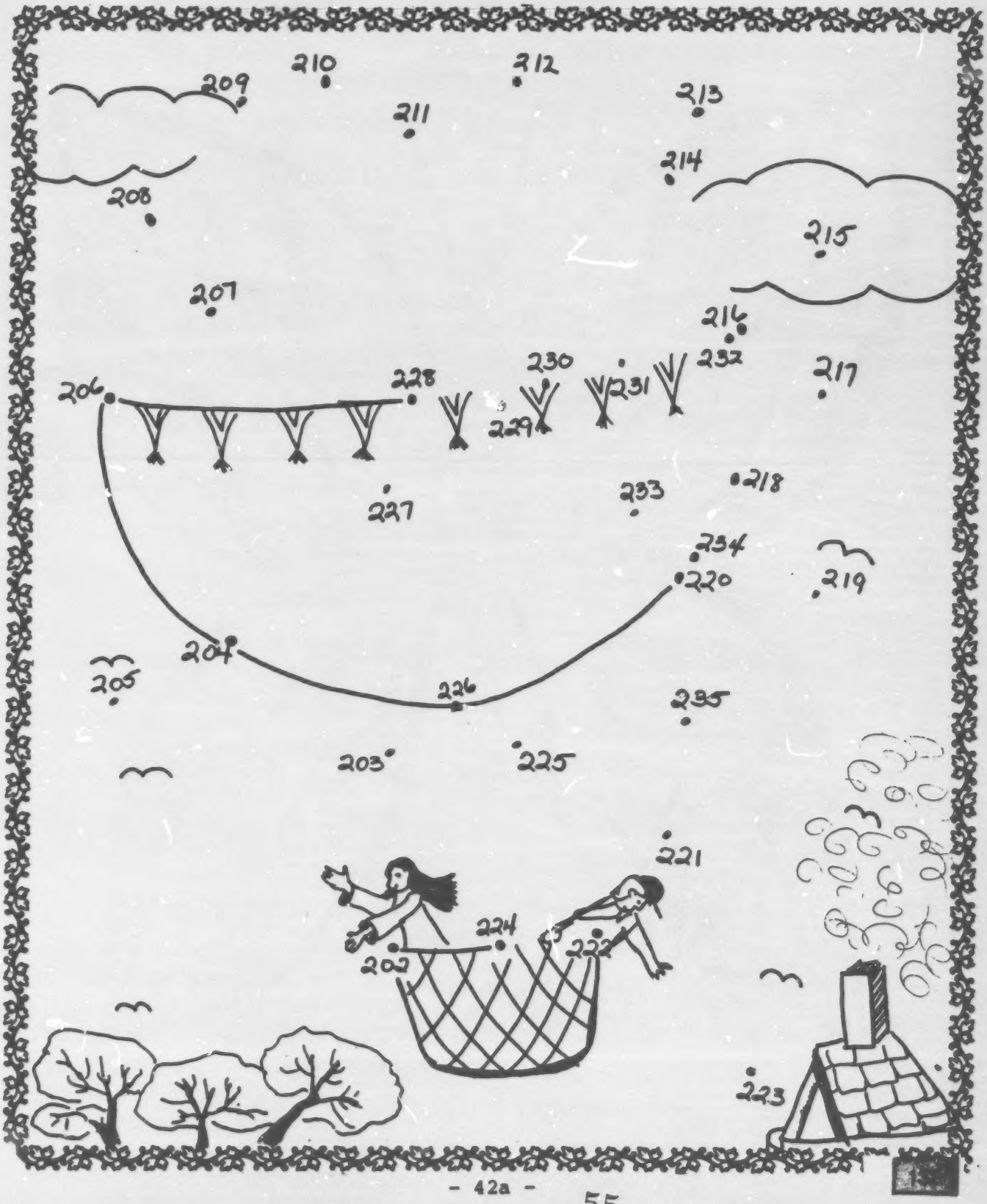
Favorite Stories	Number of Students who like them
Wizard of Oz	𝍸 𝍸
Cinderella	𝍸 III
Little Red Riding Hood	III
Alice in Wonderland	𝍸
The Night Kitchen	𝍸 𝍸 II



P.O. 2.01.09.01

NAME:_____ CLASS:_____ DATE:_____

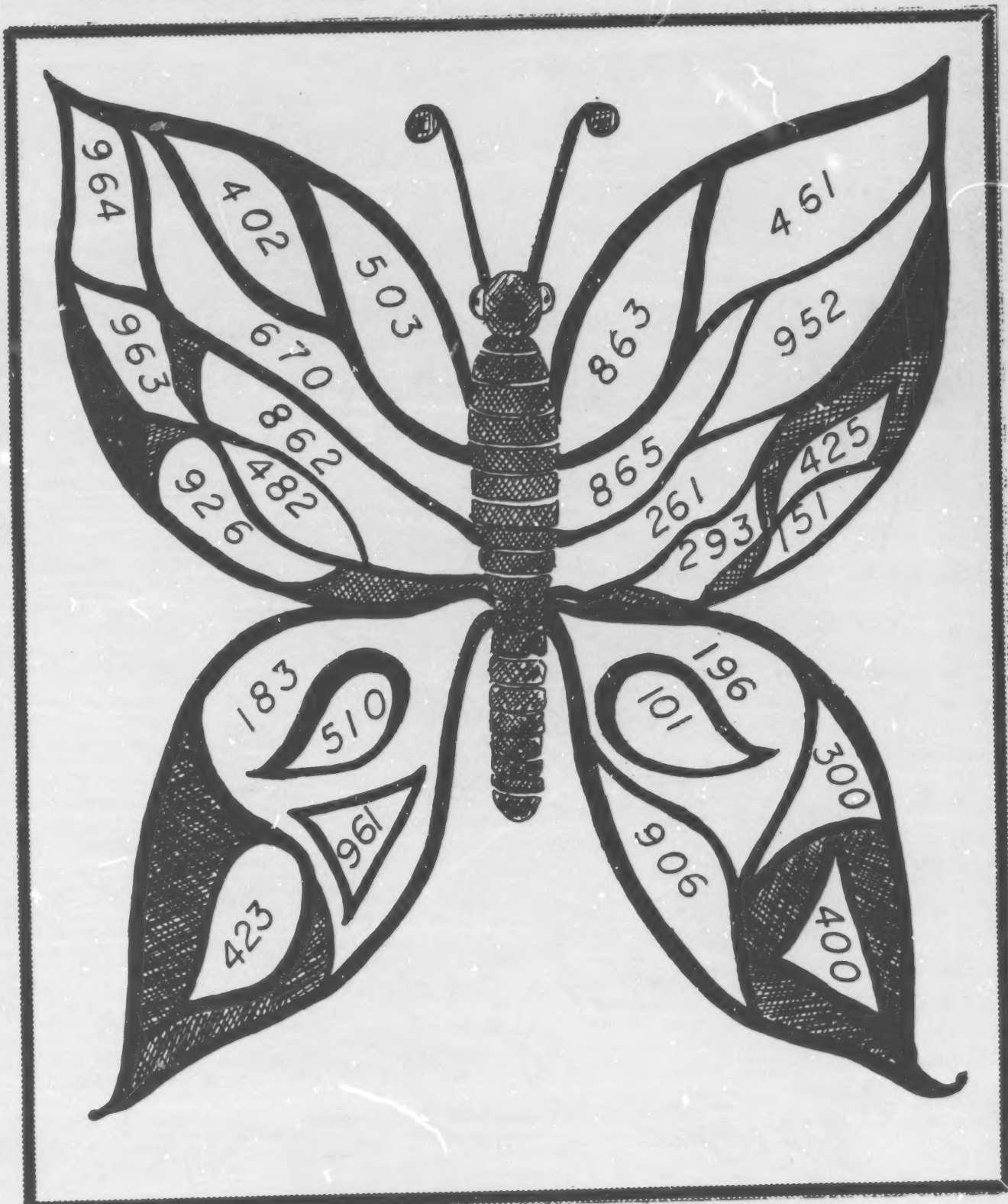
Connect the dots in order using only even numbers.
Color the picture.



P.O. 2.01.09.02

NAME:_____ CLASS:_____ DATE:_____

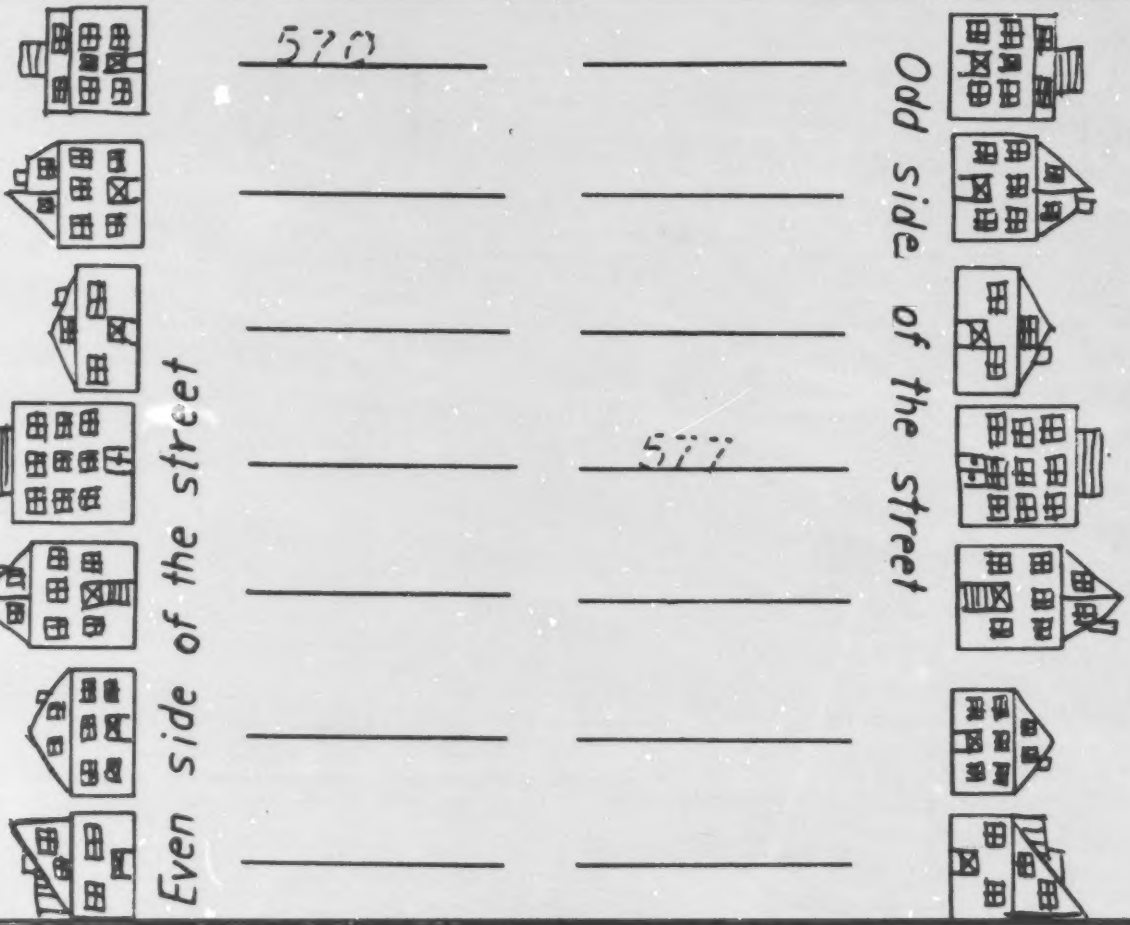
Color all odd numbers with a yellow crayon. Color all even numbers with an orange crayon.

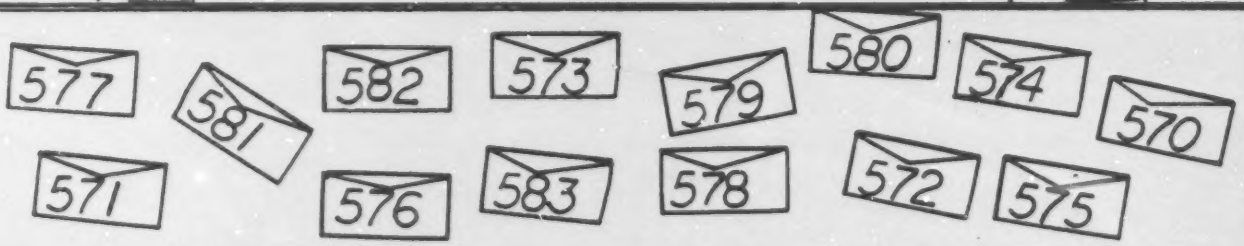


P.O. 2.01.09.03

NAME: _____ CLASS: _____ DATE: _____

Can you help this mailman? He has dropped his mailbag and his letters became mixed up. Put the odd number addressed letters on the odd side of the street and the even addressed letters on the even side of the street.

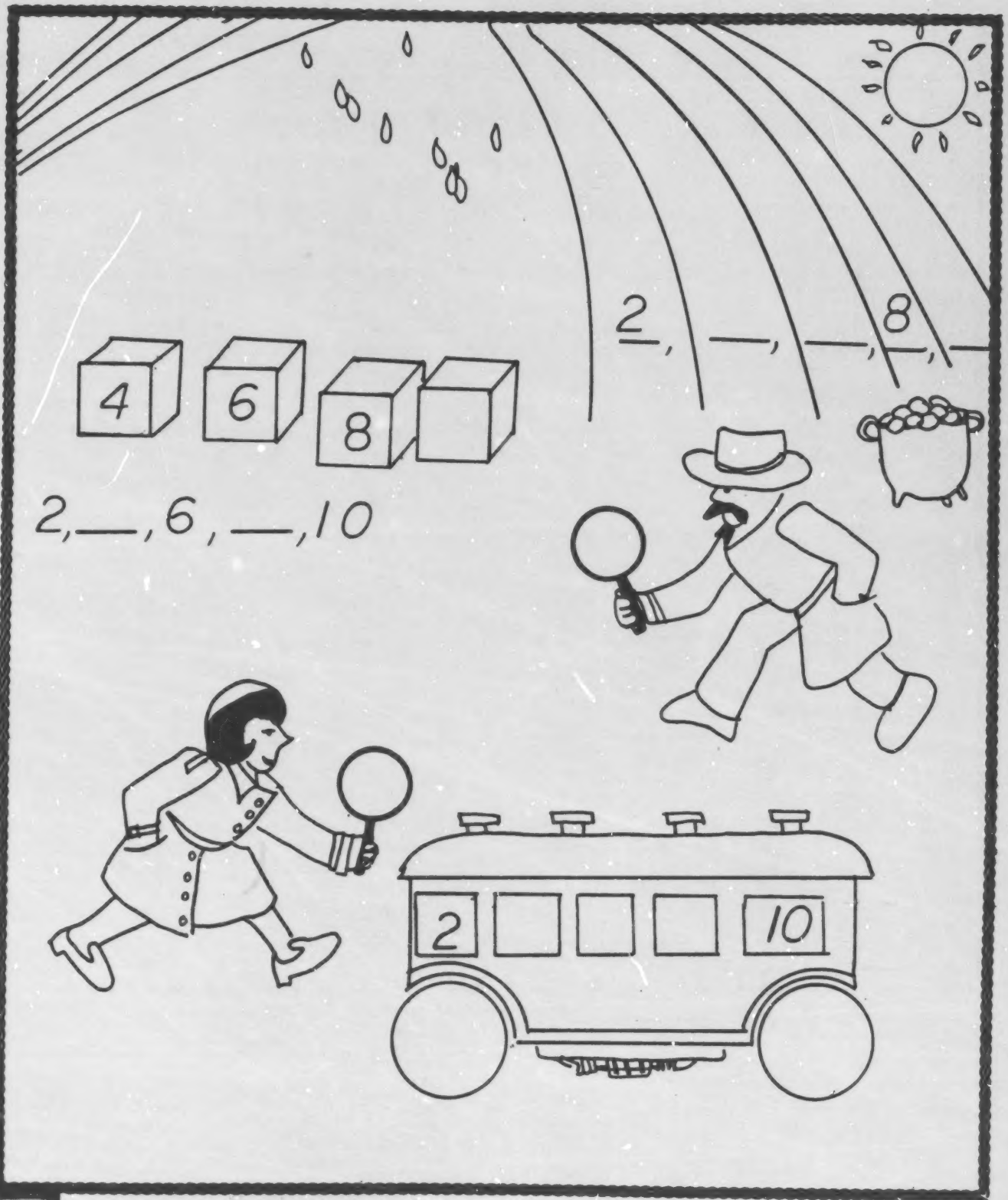




P.O. 2.04.01.01

NAME: _____ CLASS: _____ DATE: _____

Fill in the missing numbers. Counting by twos.



P.O. 2.04.01.02 -.03

NAME:_____ CLASS:_____ DATE:_____

How many groups of two can you make? Can you write the number stories to go with these groups?

= ____

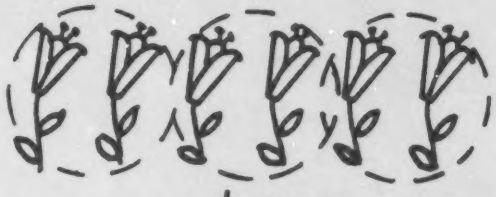
2 twos = 4 = 2 X 2 = 4

= ____

__ twos = __ = __ X 2 = __

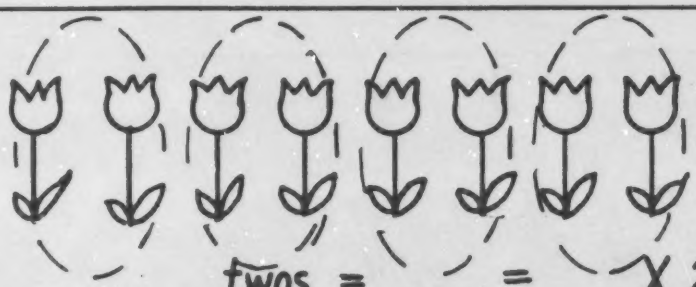
= ____

__ twos = __ = __ X 2 = __



= ____

__ twos = __ = __ X 2 = __



= ____

__ twos = __ = __ X 2 = __

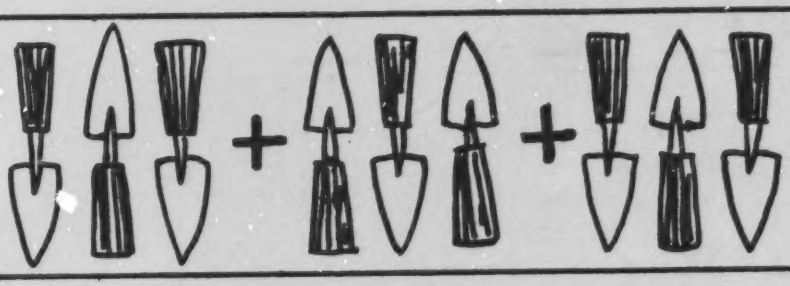
P.O. 2.04.01.03-.04

NAME:_____ CLASS:_____ DATE:_____

What are the stories for these pictures ?

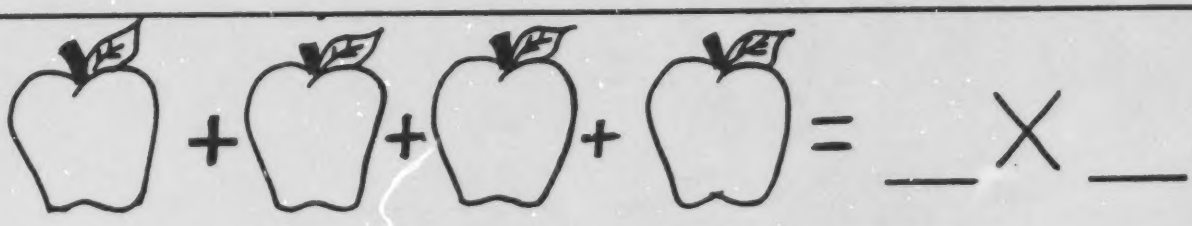
+

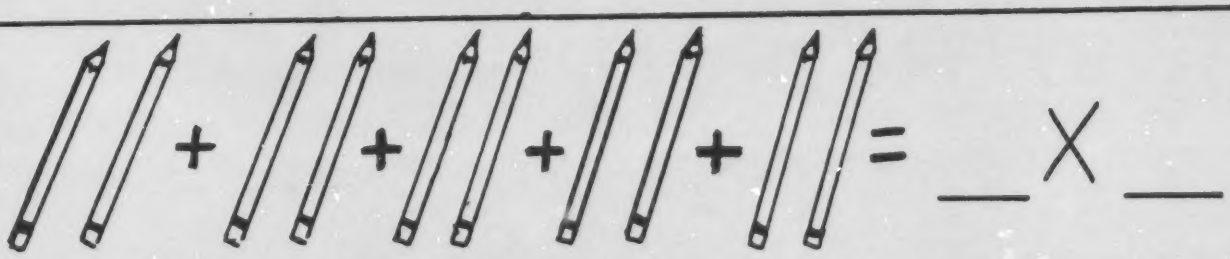
= 2 X 2


= __ X __

= __ X __

= __ X __

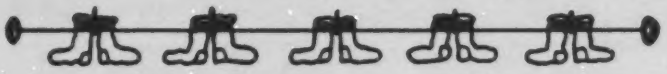

= __ X __


= __ X __

P.O. 2.04.01.05

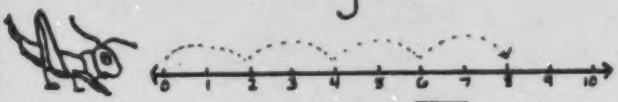
NAME:_____ CLASS:_____ DATE:_____

Follow the directions as given below.



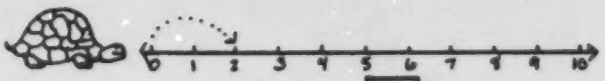
5 twos = ⁝⁝

How far did each animal jump?
Fill in the missing number.



4 twos = ☐

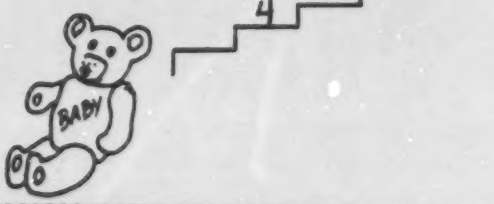
2 twos = ☐



1 two = ☐

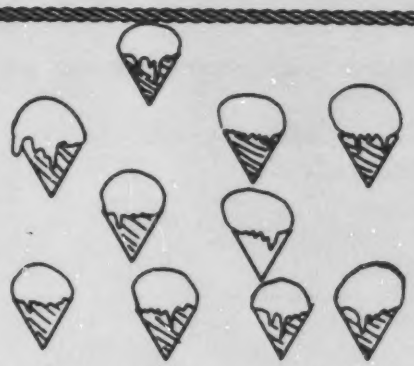
3 twos = ☐

Fill in the missing number on each step.



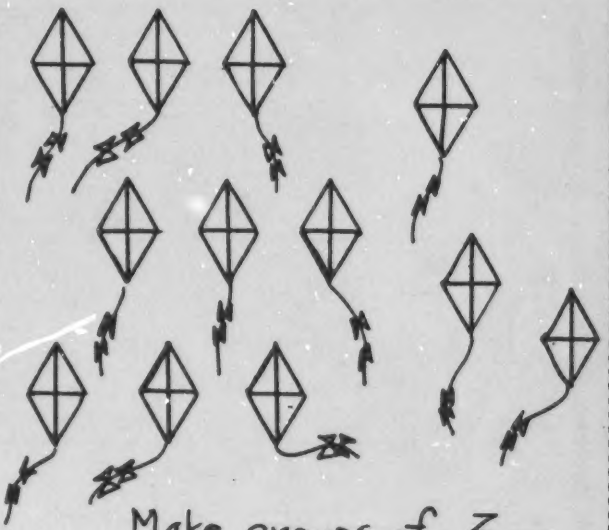
P.O. 2.05.01.01

NAME: _____ CLASS: _____ DATE: _____



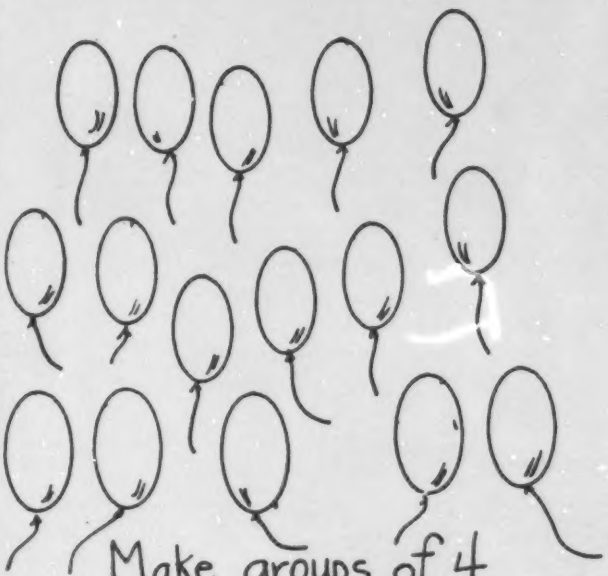
Make groups of 2.

How many groups? _____



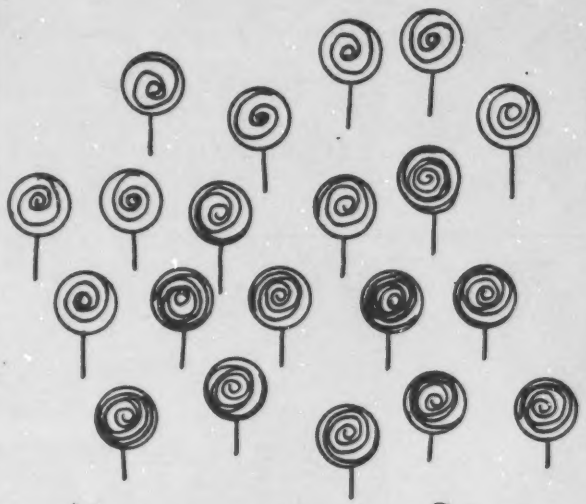
Make groups of 3.

How many groups? _____



Make groups of 4.

How many groups? _____



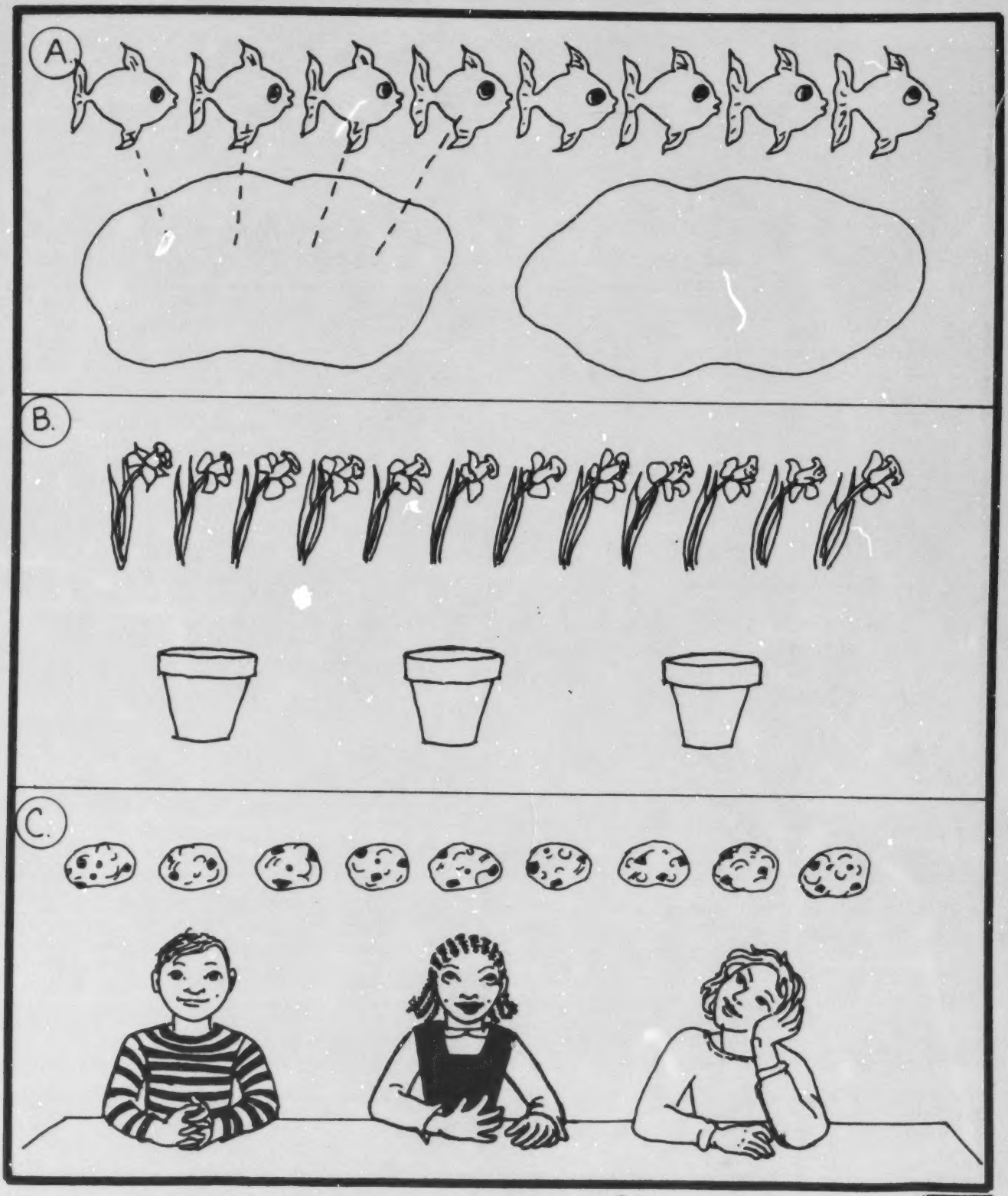
Make groups of 5

How many groups? _____

P.O. 2.05.01.02

NAME: _____ CLASS: _____ DATE: _____

Put the same number of objects in each group.

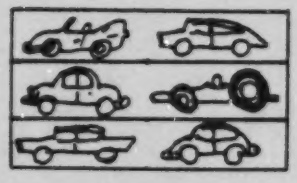


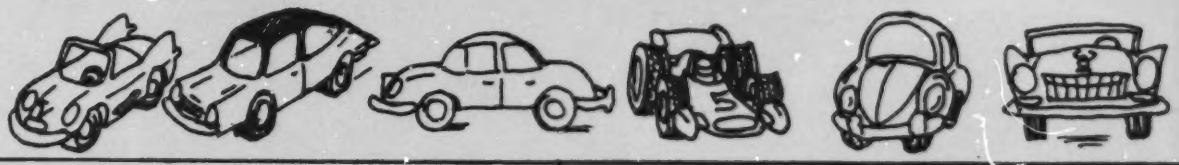
P.O. 2.05.01.03

NAME:_____ CLASS:_____ DATE:_____

Read and solve each story problem.

Jerry has 6 toy cars. If he can put 2 toy cars in each box, how many boxes does he need to put away all his cars?





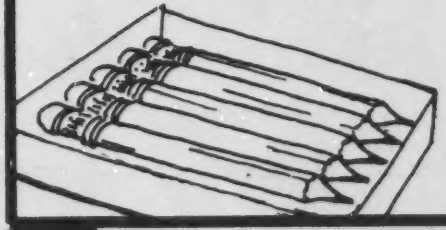
① Mother has 8 apples. She can put 4 apples in each basket. How many baskets does she need?

② Ms. Jones has 6 books. She can put 2 books on a table. How many tables does she need?

③ There are 9 frogs. Three frogs are on each log. How many logs are there?

④ There are 4 lollipops. Each youngster gets 2 lollipops. How many youngsters are there?

⑤ There are 10 pencils. Five pencils are in each box. How many boxes are there?

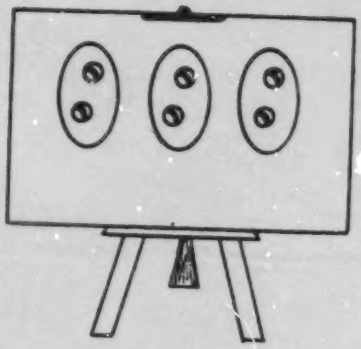


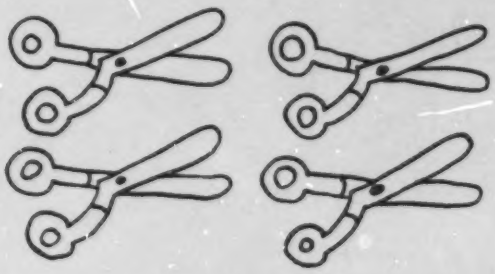
⑥ There are 12 stars. 3 stars are in each circle. How many circles are there?

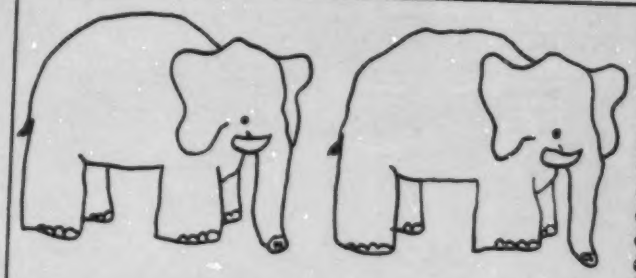
P.O. 2.05.02.01

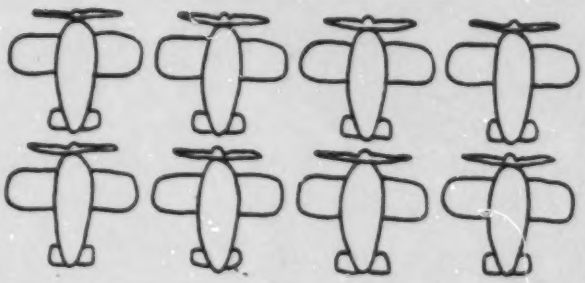
NAME: _____ CLASS: _____ DATE: _____

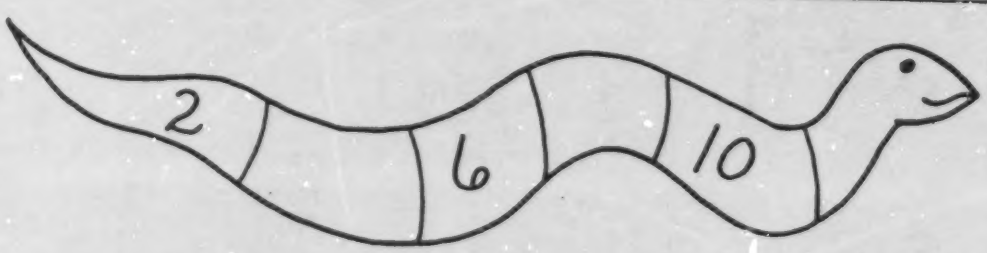
Circle groups of 2.







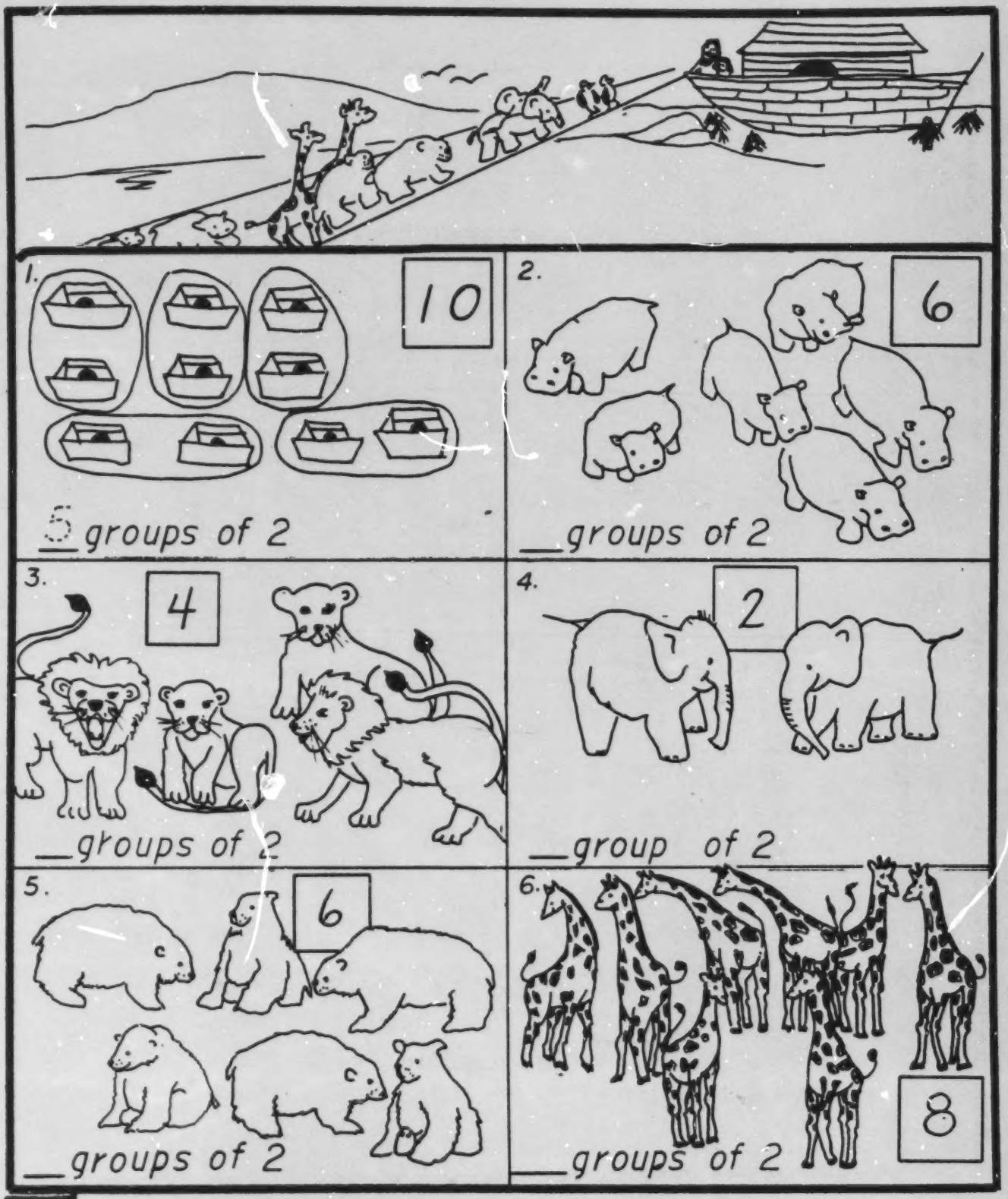




P.O. 2.05.02.02

NAME:_____ CLASS:_____ DATE:_____

Write the number of objects. Circle groups of two and fill in the box.



P.O. 2.05.02.03

NAME:_____ CLASS:_____ DATE:_____

Draw a picture to show each grouping. Write the number of groups in the box.

John has 8 apples.
He put 2 apples in each basket.
How many baskets did he need?

1)

There are 10 balls. I want to put 2 balls in each box. How many boxes do I need?

☐ Groups

2)

There are 4 lions. The zookeeper put 2 lions in each cage. How many cages did he need?

☐ Groups

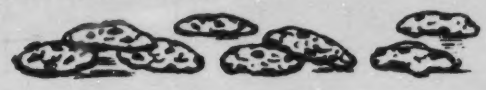
3)

Maria has 6 flowers. She put 2 flowers in each vase. How many vases did she need?

☐ Groups

4)

Mrs. Jones has 8 chocolate chip cookies. She put 2 cookies on each plate. How many plates does she have?

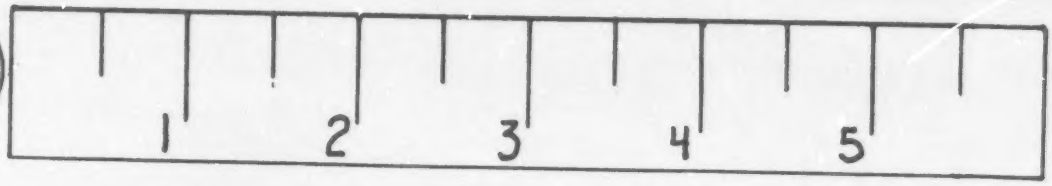


☐ Groups

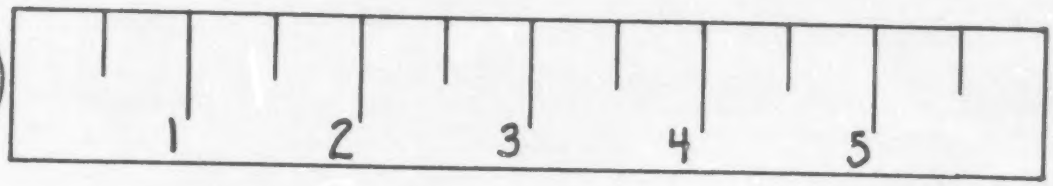
P.O. 2.10.09.01

NAME: _____ CLASS: _____ DATE: _____

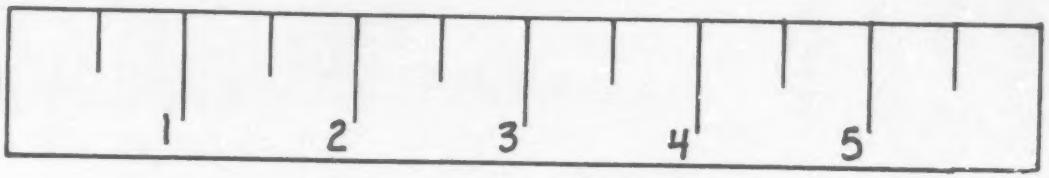
Cut out the butterflies at the bottom of the page.
Paste a butterfly on each measurement named at the end of the ruler.

1) 

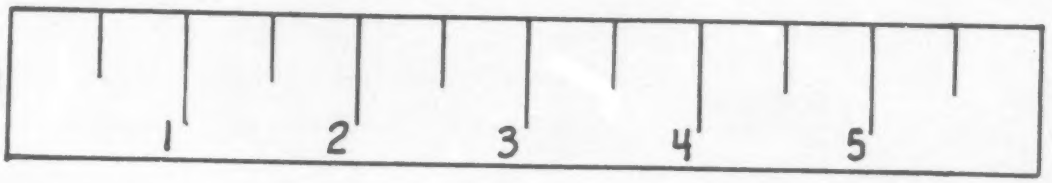
$4\frac{1}{2}$ in

2) 

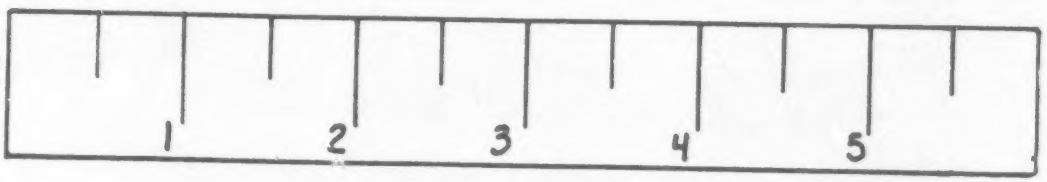
$2\frac{1}{2}$ in.

3) 

$1\frac{1}{2}$ in.

4) 

$5\frac{1}{2}$ in.

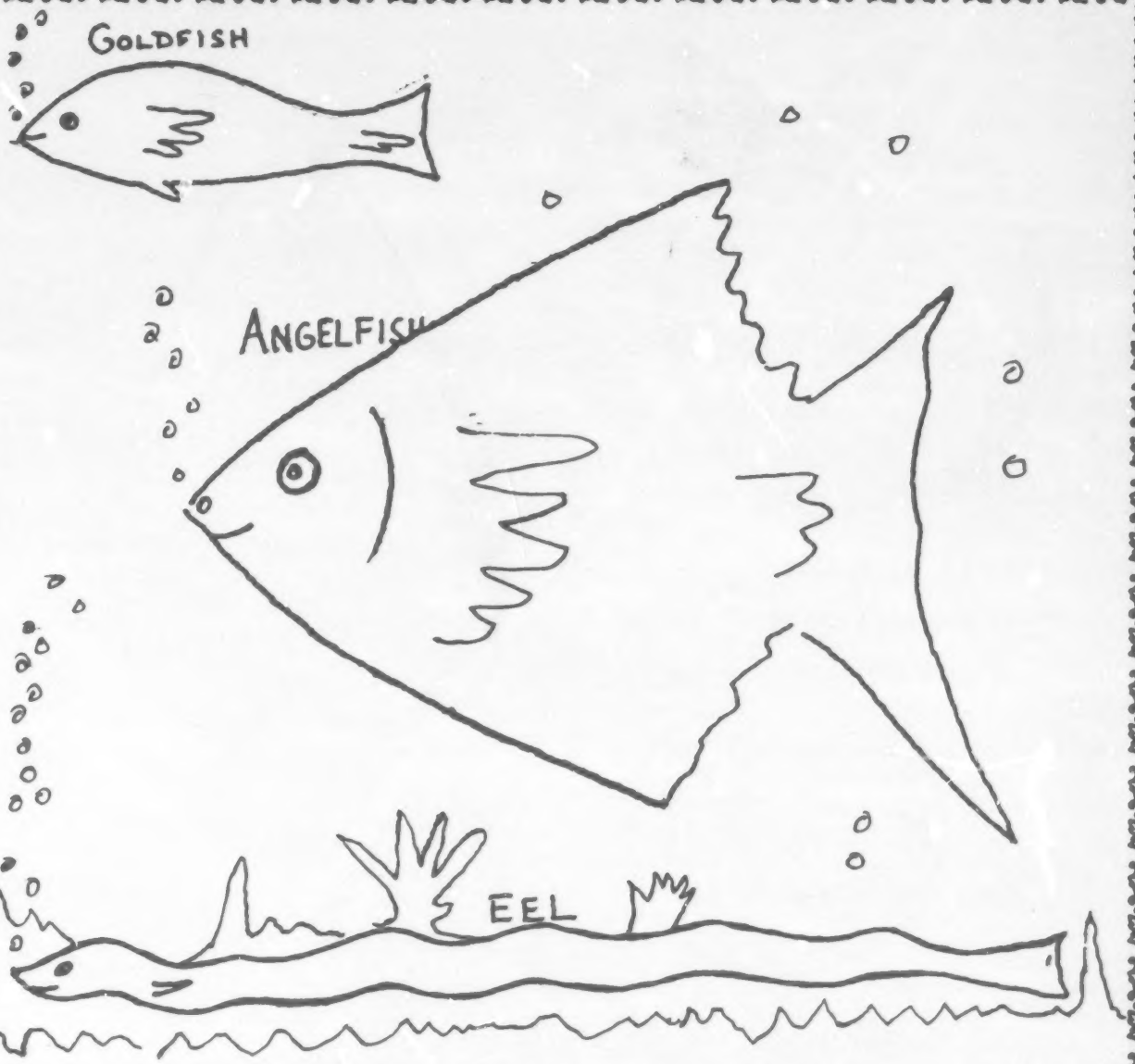
5) 

$3\frac{1}{2}$ in.

P.O. 2.10.09.02

NAME:_____ CLASS:_____ DATE:_____

Measure each fish and record it's length next to its name on the chart.

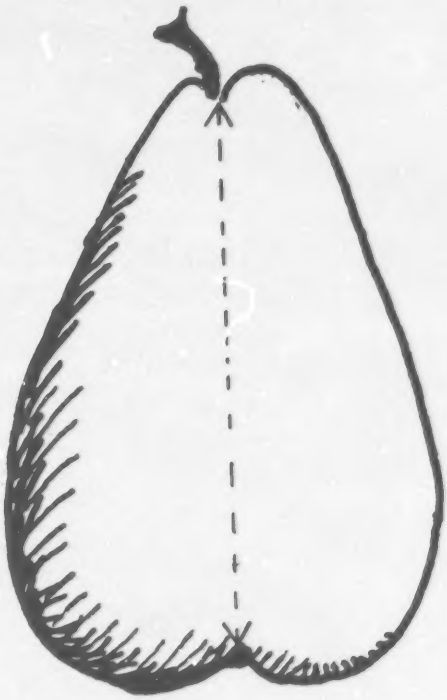


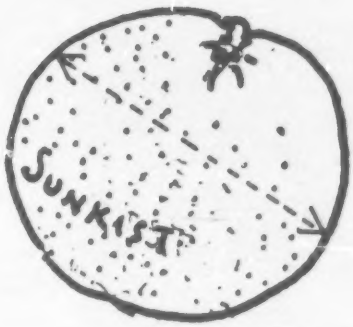
TROPICAL FISH	LENGTH TO ½ INCH
GOLDFISH	_____ INCHES
ANGELFISH	_____ INCHES
EEL	_____ INCHES

P.O. 2.10.09.03

NAME: _____ CLASS: _____ DATE: _____

Measure each piece of fruit to the nearest $\frac{1}{2}$ inch and record its measurement on the chart.



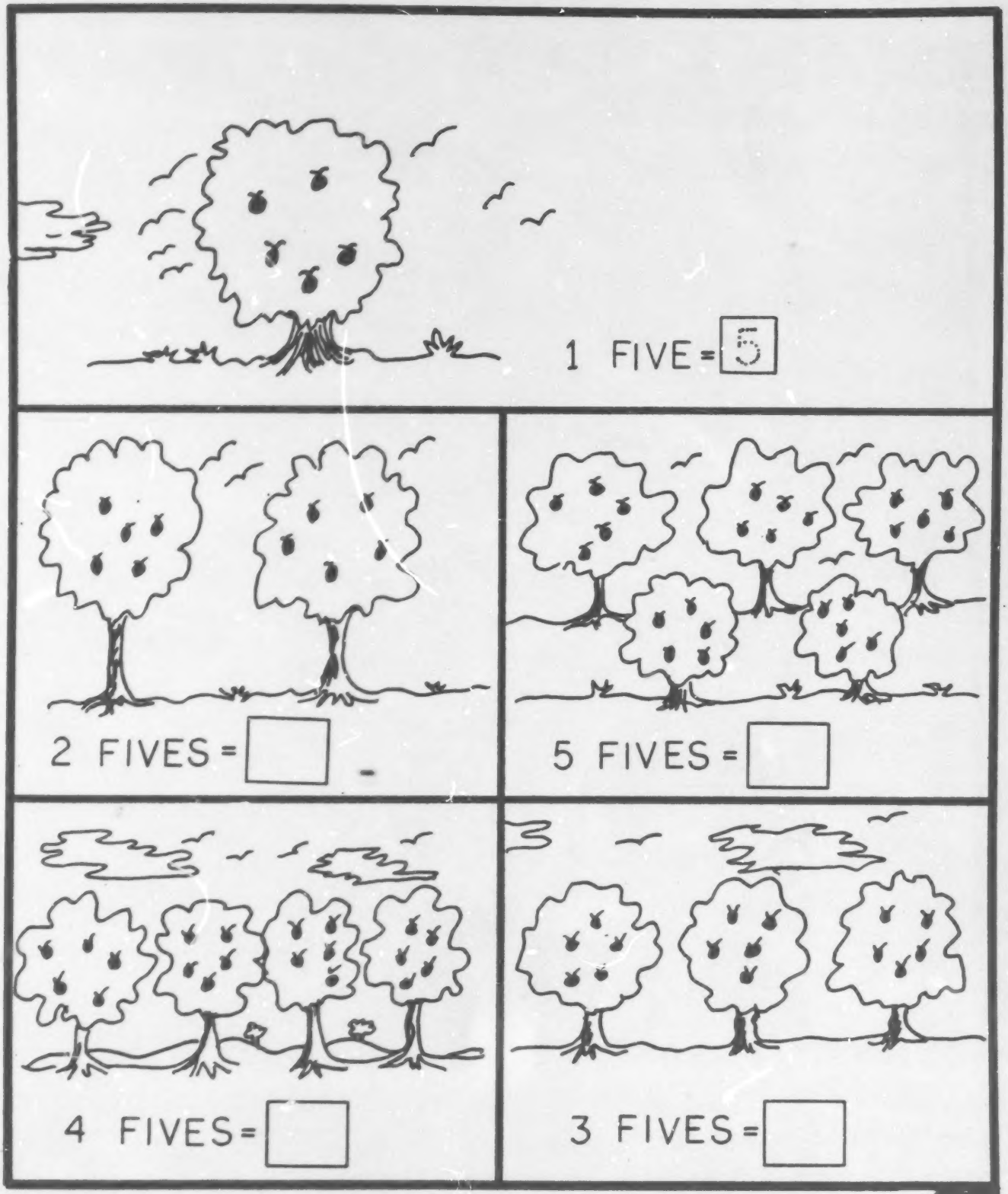


FRUIT	TO NEAREST 1/2 IN.
APPLE	
PEAR	
ORANGE	

P.O. 2.04.02.01

NAME: _____ CLASS: _____ DATE: _____

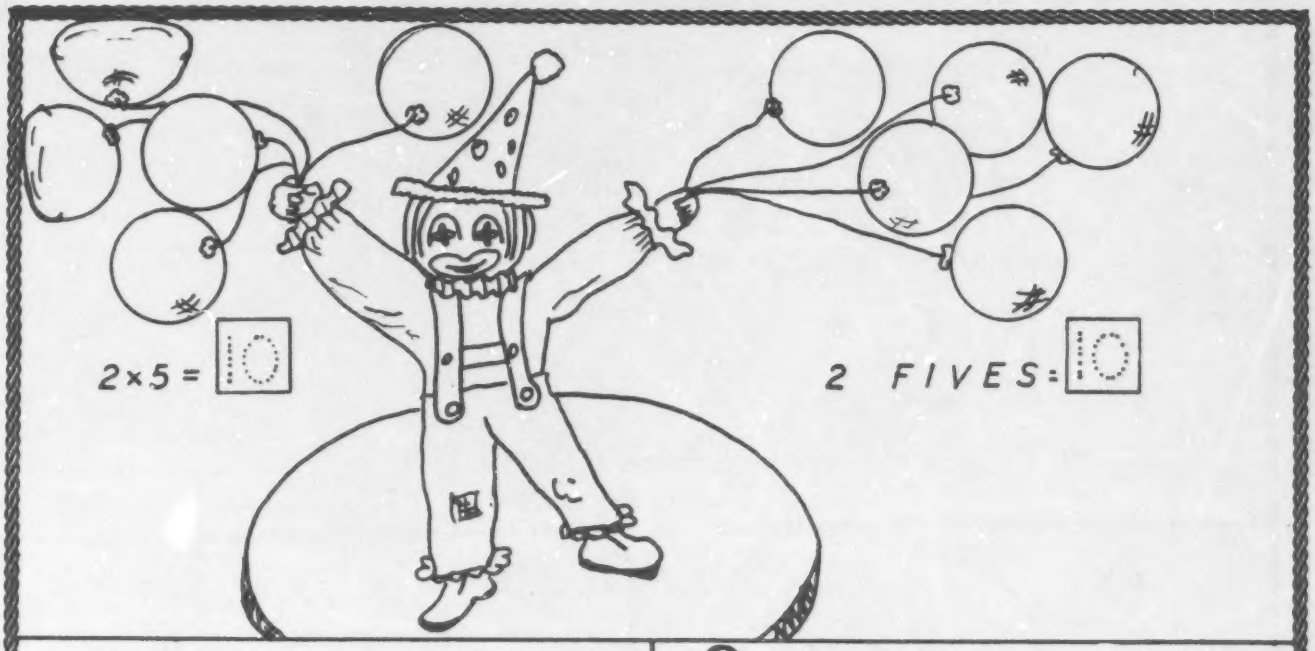
Count the fruits in the trees.



P.O. 2.04.02.02

NAME: _____ CLASS: _____ DATE: _____

Count the number of balloons.

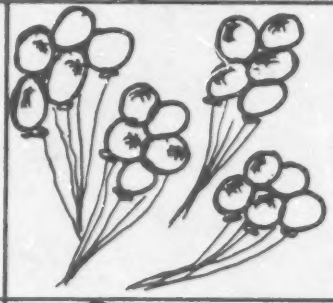


2×5 = 10

2 FIVES: 10

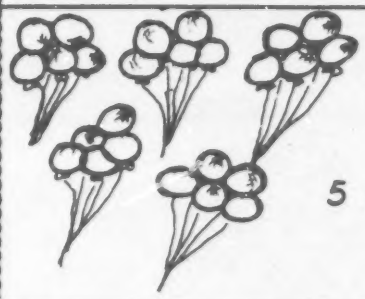
1 × 5 = ☐

1 five = ☐



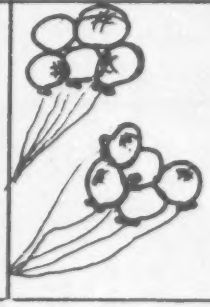
4 × 5 = ☐

4 fives = ☐



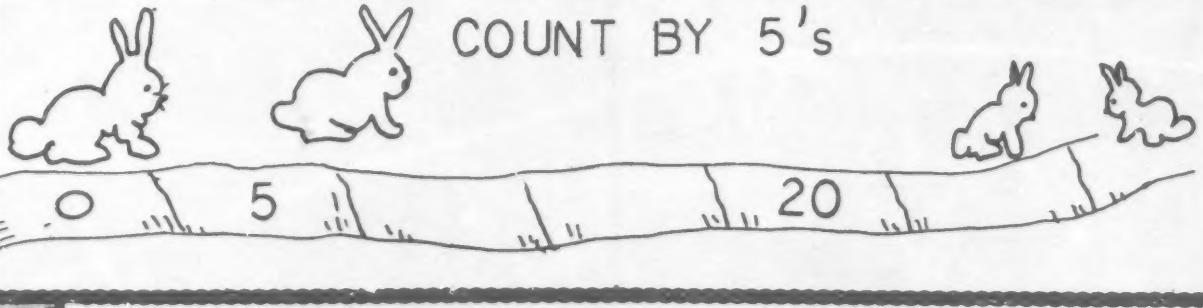
5×5 = ☐

5 fives = ☐



2×5 = ☐

2 fives = ☐



P.O. 2.04.02.03

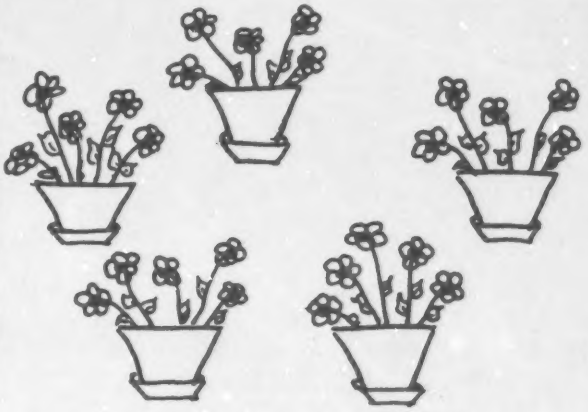
NAME: _____ CLASS: _____ DATE: _____

How many flowers are in the flower pots?

1 X 5 = 5

5+5+5 = ☐

3x5 = ☐



5+5+5+5+5 = ☐

5x5 = ☐

5+5+5+5 = ☐

4x5 = ☐

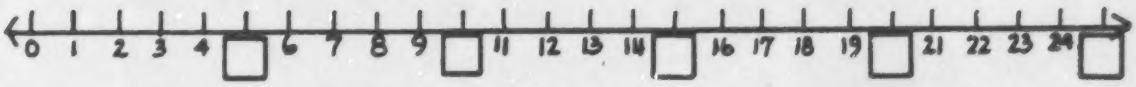
5+5 = ☐

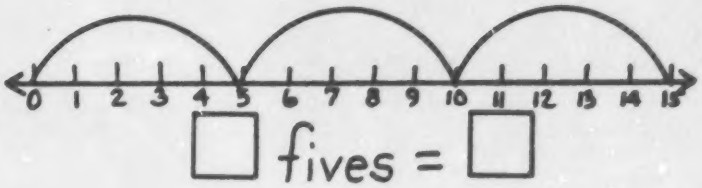
2x5 = ☐

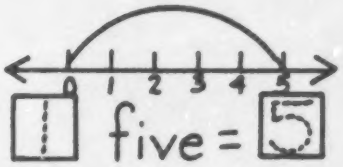
P.O. 2.04.02.04

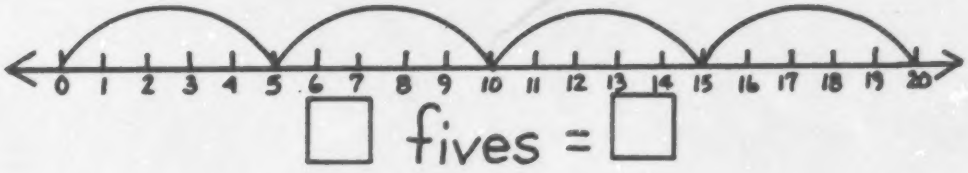
NAME:_____ CLASS:_____ DATE:_____

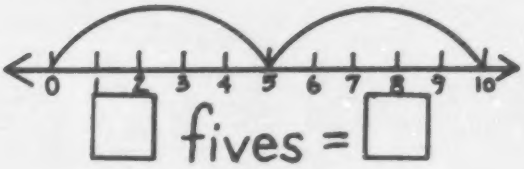
Can you count by fives?

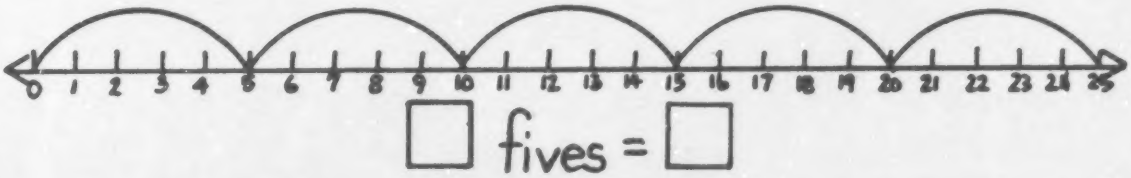








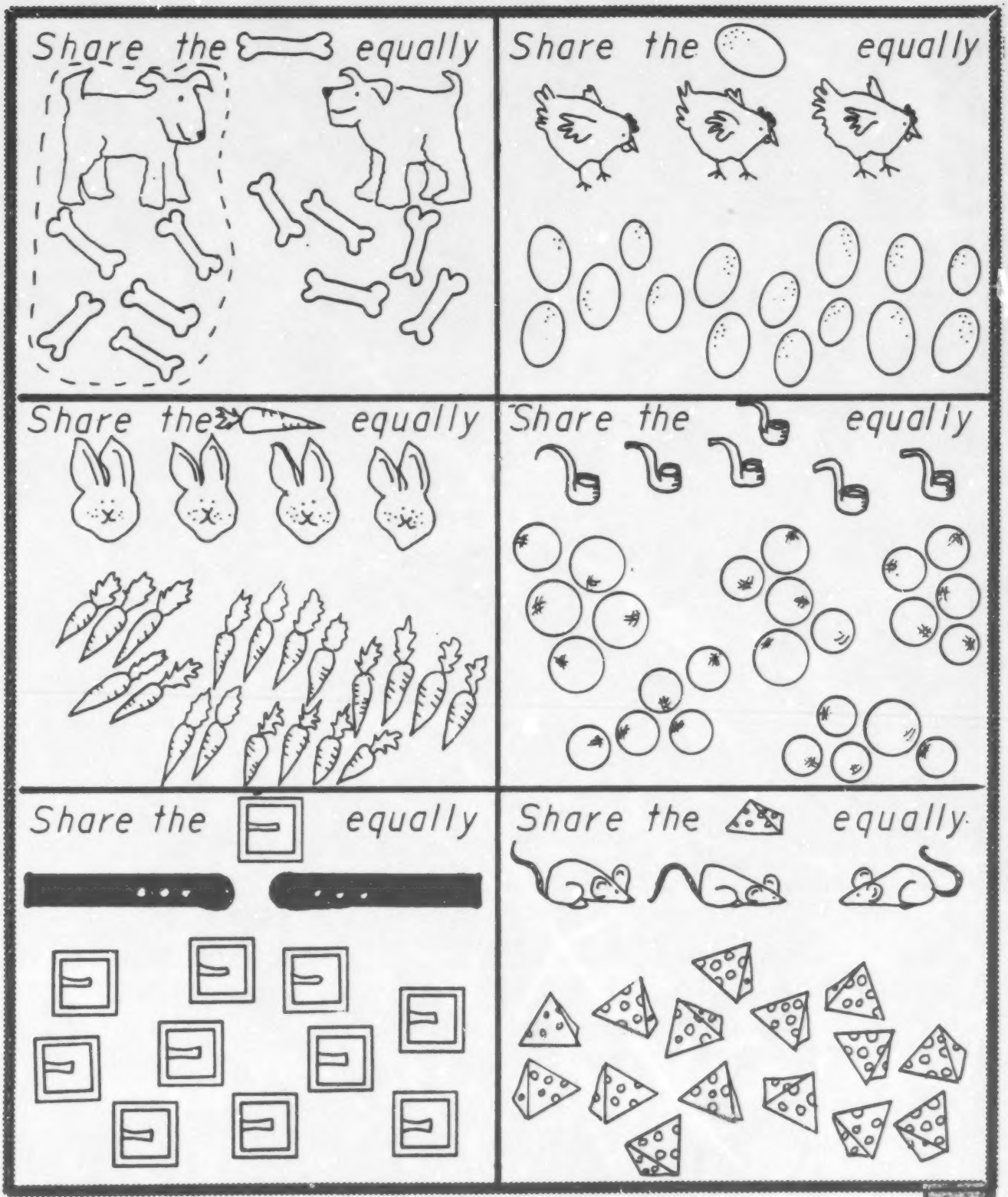




P.O. 2.05.03.01

NAME: _____ CLASS: _____ DATE: _____

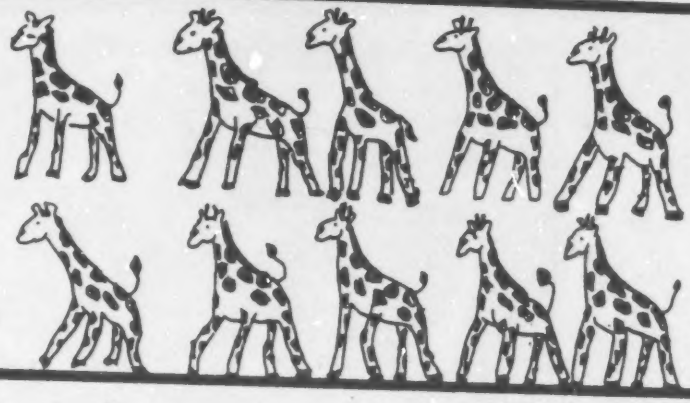
Separate the objects in each box into equal groups.



P.O. 2.05.03.02

NAME: _____ CLASS: _____ DATE: _____

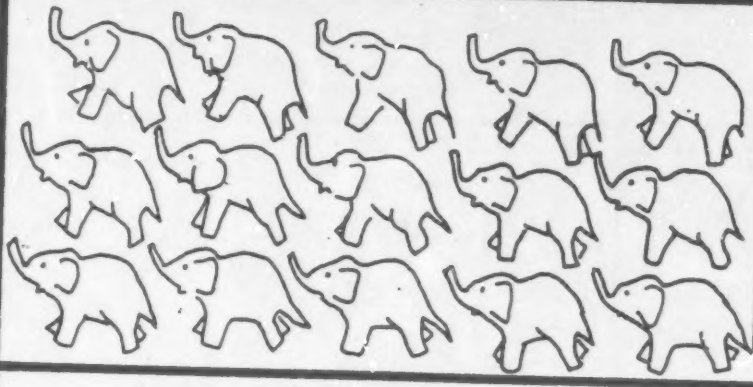
Circle each group of 5. Write the number of rows.



10 in all.

5 in each row.

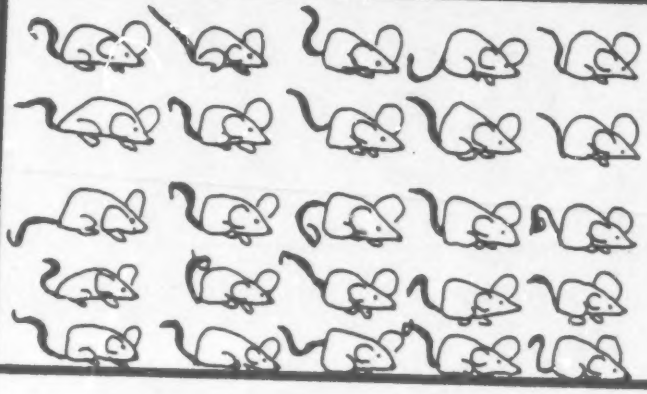
☐ rows.



15 in all.

5 in each row.

☐ rows.



25 in all.

5 in each row.

☐ rows.

5 in all.

5 in each row.

☐ rows.

P.O. 2.05.03.03

NAME: _____ CLASS: _____ DATE: _____

Solve each problem. Write the answer in the square. Write the letter of the problem on the line above the answer at the bottom. See if you can spell the secret word.

U

There are 15 cookies in a jar. 5 girls are going to share the cookies. How many will each girl receive?

P

The Smith family walked 5 miles in 5 days. How many miles did they walk each day?

A

There are 20 pennies in a bank. 5 boys are going to share the pennies equally. How many will each boy get?

E

John has 12 toy trucks. He is going to share them equally with his 4 friends. How many trucks will each friend get?

S

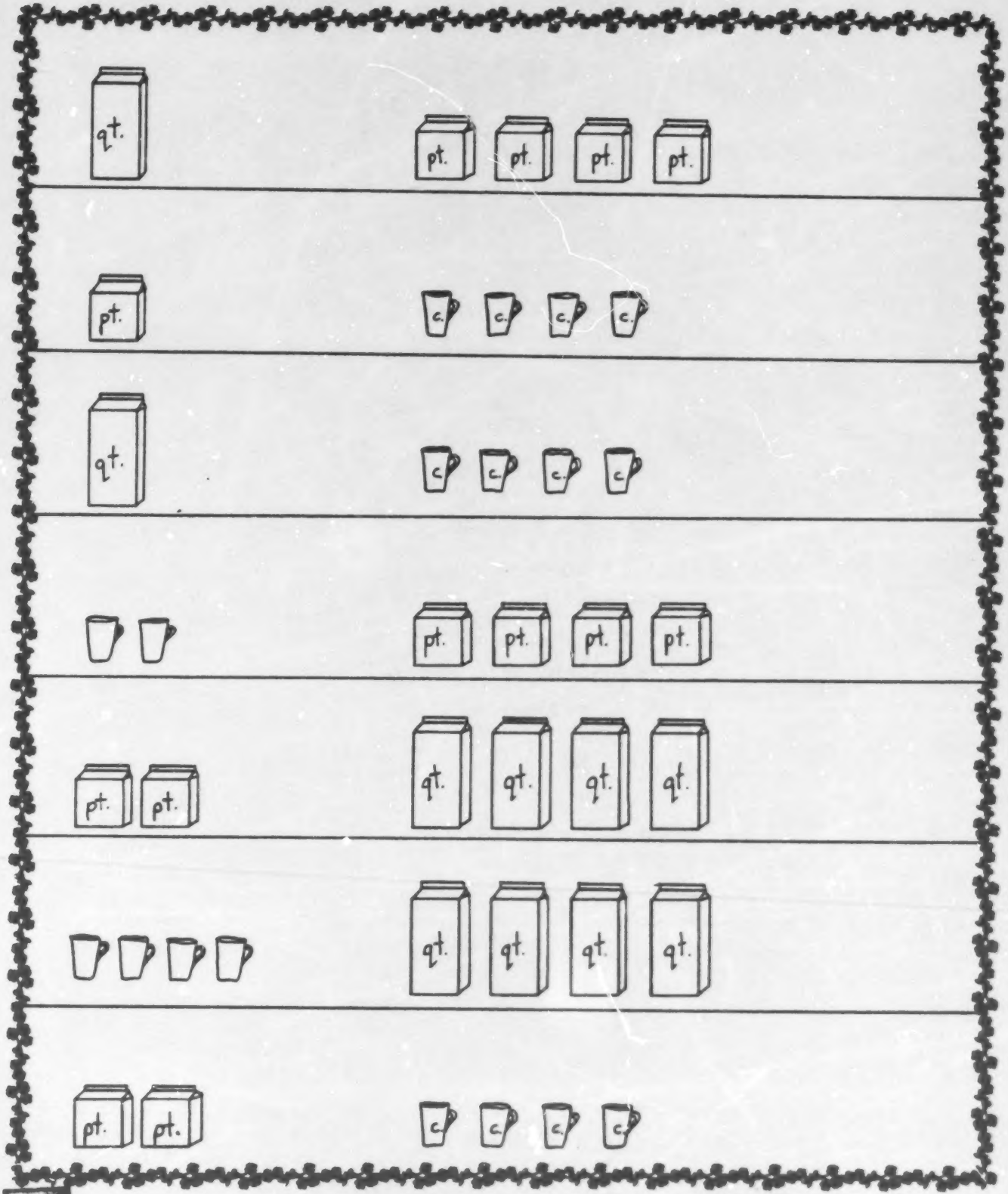
There are 25 bones. If 5 dogs are going to share the bones equally, how many bones will each dog get?

5	3	1	2	4

P.O. 2.10.10.01

NAME: _____ CLASS: _____ DATE: _____

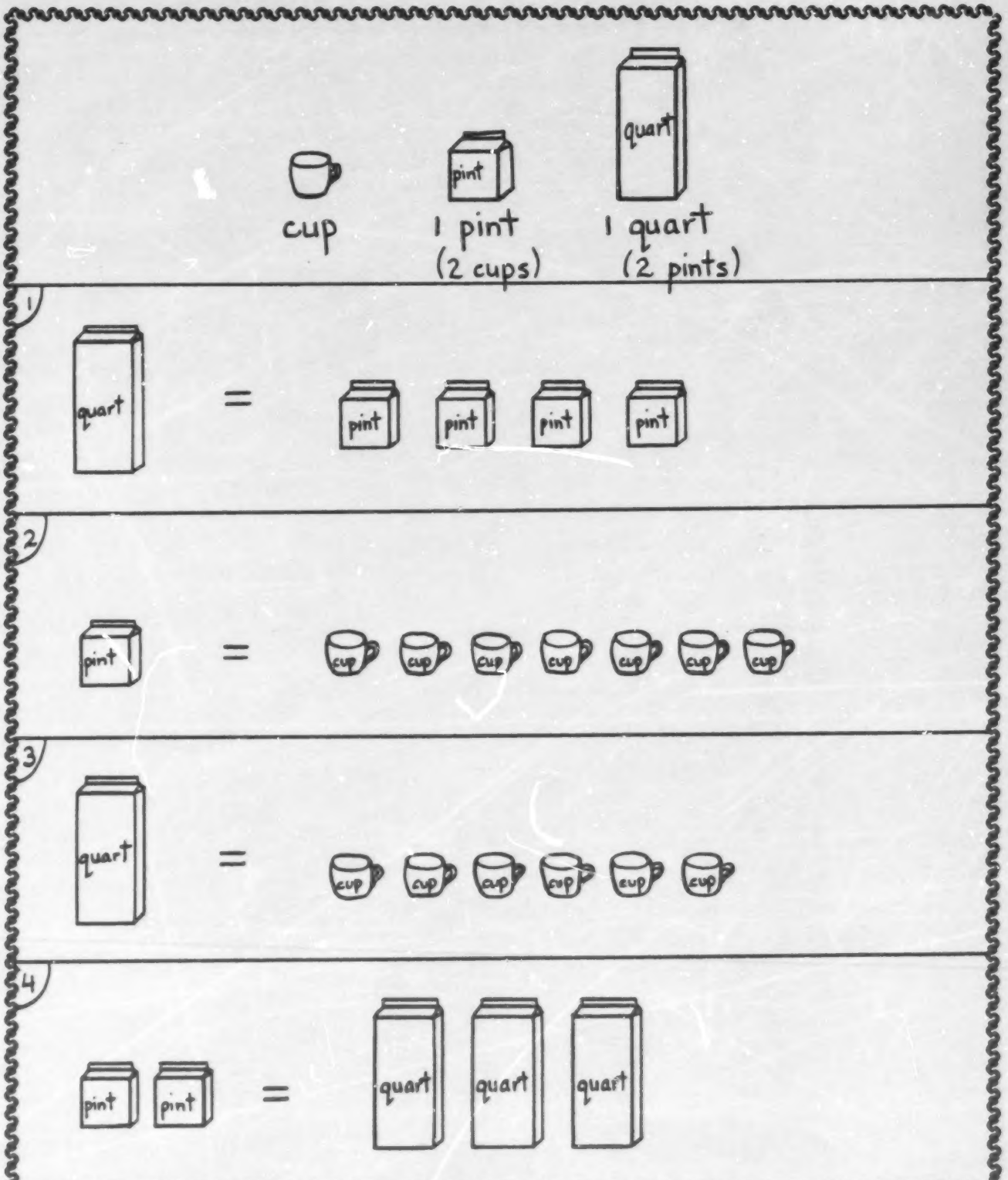
Mark the same amount.



P.O. 2.10.10.02

NAME:_____ CLASS:_____ DATE:_____

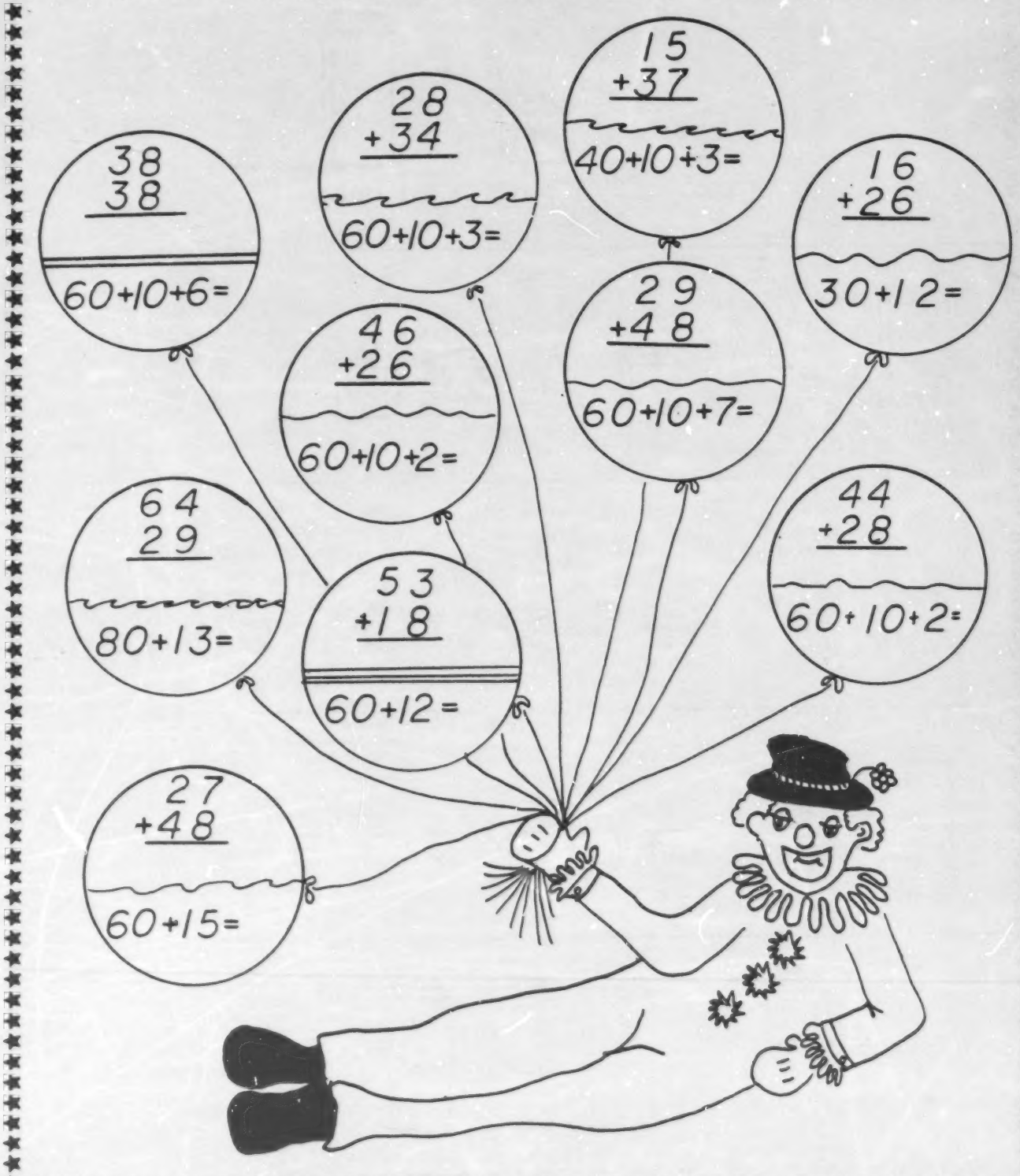
Draw a circle around the amount that matches.



P.O. 2.02.05.01

NAME: _____ CLASS: _____ DATE: _____

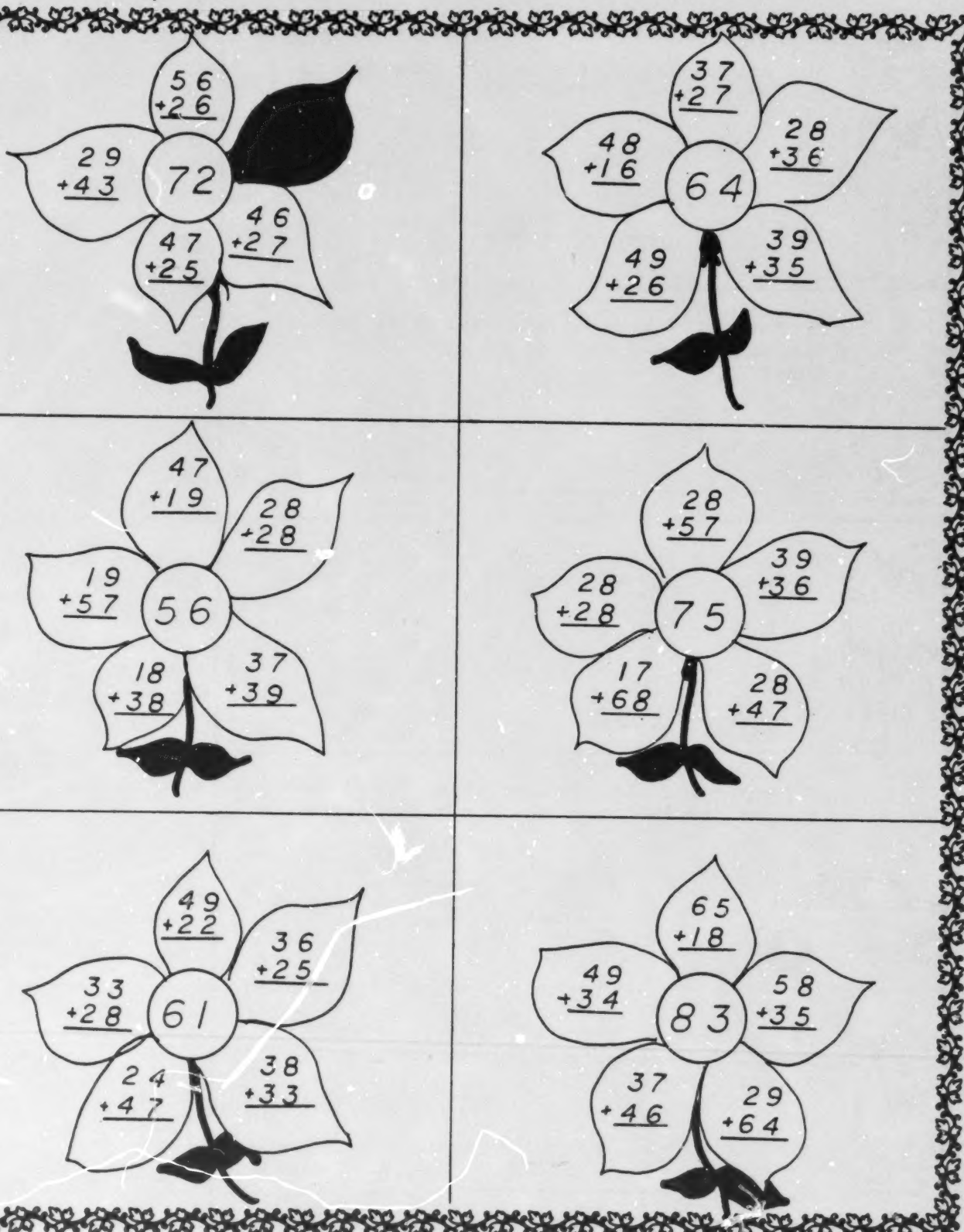
Do the addition. Color the balloons that have examples which are equal. Three balloons will not be colored.



P.O. 2.02.05.02

NAME: _____ CLASS: _____ DATE: _____

Do the addition. Color the petals that have the same number as the center of the flower.



P.O. 2.02.05.03

NAME: _____ CLASS: _____ DATE: _____

Read the problem. Do the work on the side.
Fill in the blank with your answer.

Ann saw 24 fat clowns and 17 thin clowns. How many clowns did she see in all?

_____ Clowns

I counted 27 pink elephants and 37 purple elephants. How many elephants did I count?

_____ Elephants

36 boys and 27 girls went to the circus. How many youngsters went to the circus?

_____ Youngsters

17 people got out of the little car. Then 29 more people got out. How many people were in the car?

_____ People

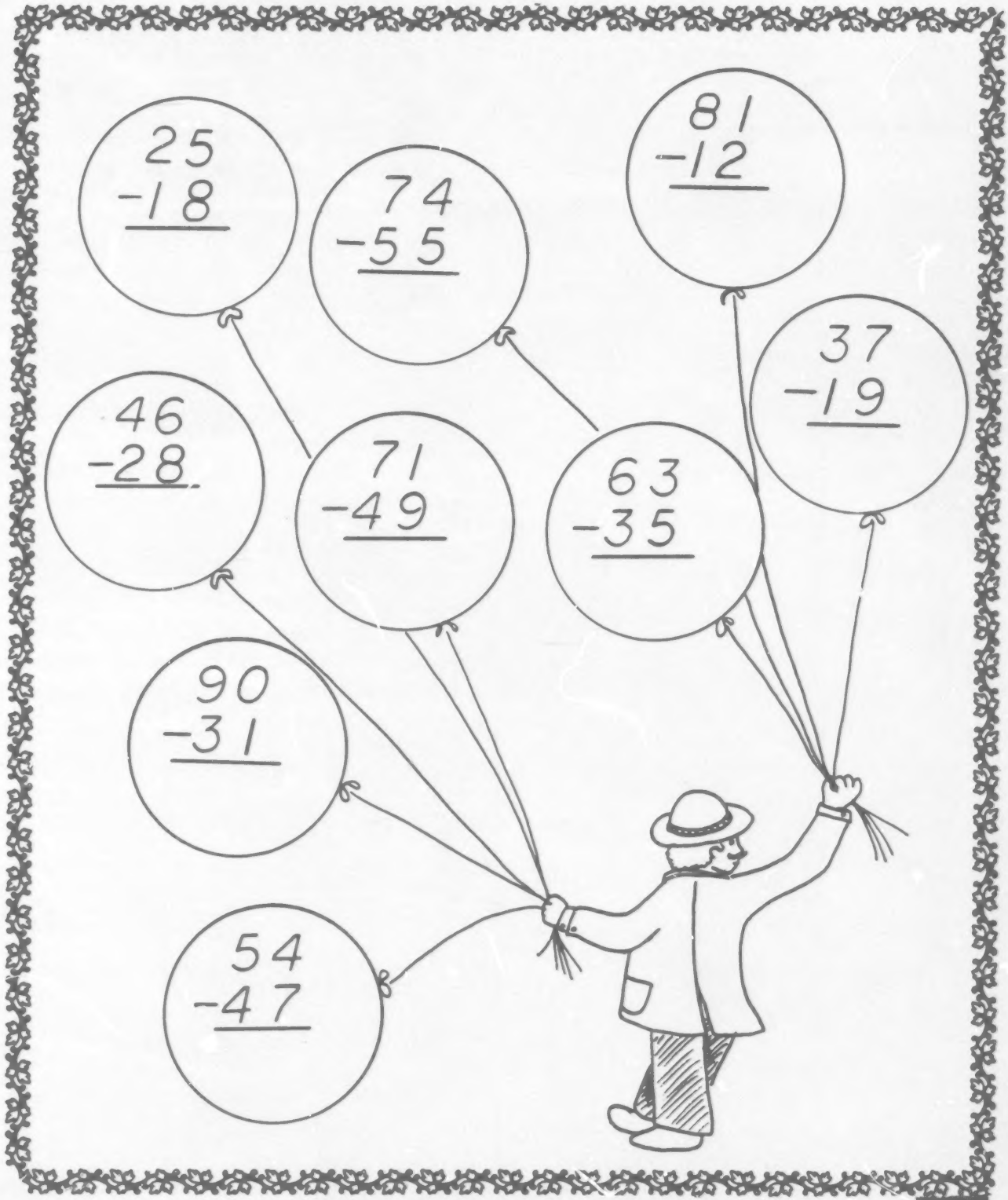
34 gray horses came out. Then 28 white horses followed. How many horses were in the ring?

_____ Horses

P.O. 2.03.03.01

NAME:_____CLASS:_____DATE:_____

After you find the answer place an X on the string to release each balloon. Remember to check your answer.



P.O. 2.03.03.02

NAME: _____ CLASS: _____ DATE: _____

Find out how much money each student has left after they each spend some money. Remember to check your answer.

Lorraine has 23¢ and spent 16¢	Tommy has 45¢ and spent 27¢	Susan has 17¢ and spent 8¢	Robert has 96¢ and spent 37¢	Maria has 58¢ and spent 29¢	John has 71¢ and spent 14¢
$\overset{1}{2}\overset{13}{\not3}$¢ −16¢ 7¢	45¢ −27¢				
Lorraine has [7¢] left	Tommy has [ ] left	Susan has [ ] left	Robert has [ ] left	Maria has [ ] left	John has [ ] left
Check [7¢] +16¢ 23¢	Check [ ] + _____	Check [ ] + _____	Check [ ] + _____	Check [ ] + _____	Check [ ] + _____

P.O. 2.03.03.03

NAME:_____ CLASS:_____ DATE:_____

Help these students to solve their problem. Remember to check the answer.

Cathy had 75¢. She spent 37¢. How much money did she have left?

Solve

$$\begin{array}{r} 75¢ \\ -37¢ \\ \hline 38¢ \end{array}$$

Check

$$\begin{array}{r} 38¢ \\ +37¢ \\ \hline 75¢ \end{array}$$

Jose bought 32 cupcakes for his birthday party. 25 students ate a cupcake. How many cupcakes were left?

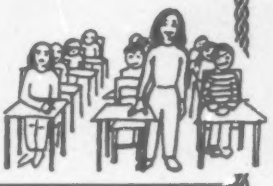
Solve Check

Louis had 43 baseball cards. He lost 17 cards flipping with Barbara. How many cards does Louis have left?

Solve Check

There are 26 students in Miriam's class. There are 18 girls. How many boys are there in Miriam's class?

Solve Check



George has 61 red and blue chips. If he has 14 red chips, how many blue chips does he have?

Solve Check

Richard flipped 55 football cards. 38 landed "heads up". How many landed on "tails"?

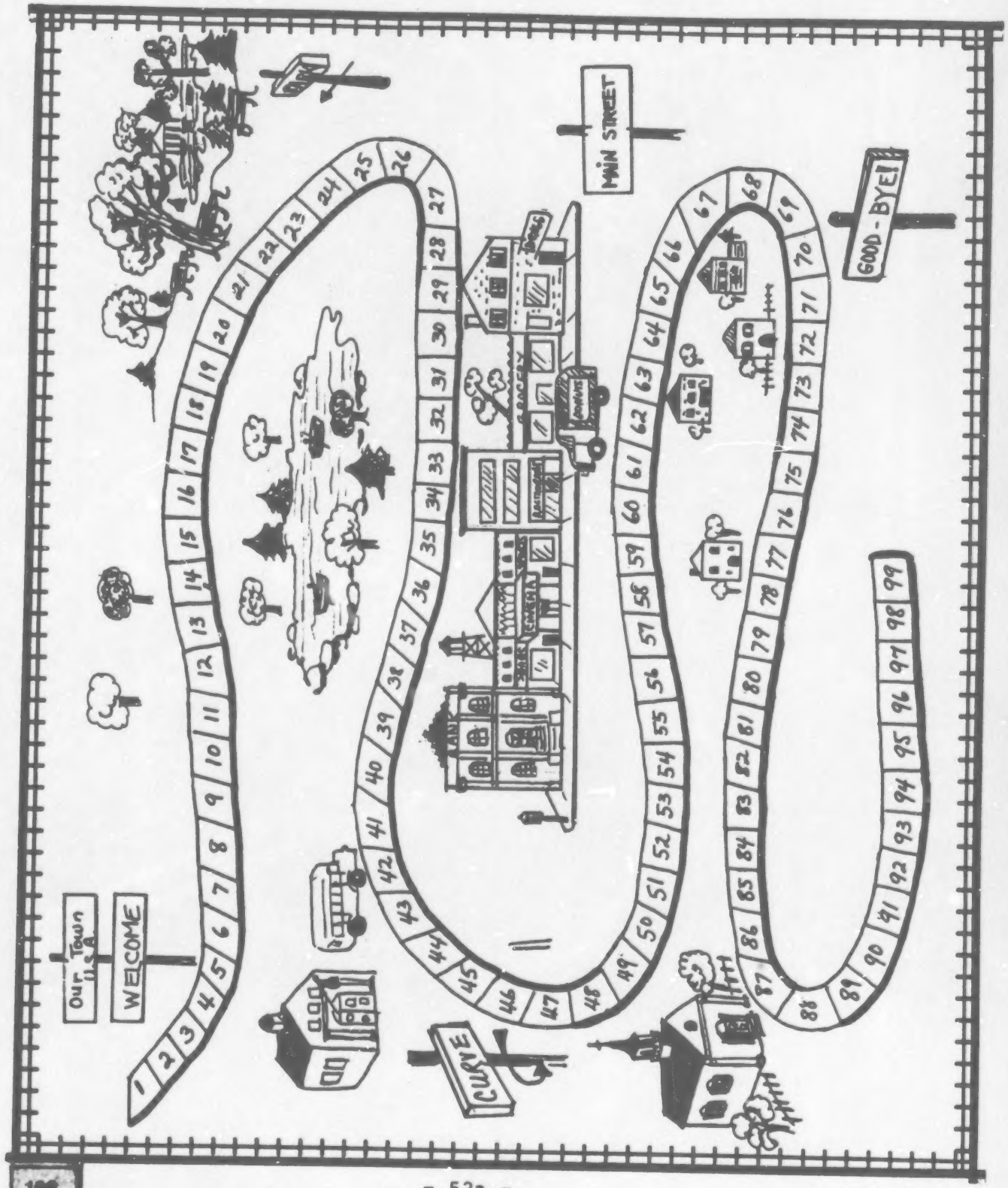
Solve Check

P.O. 2.01.10.01

NAME: _____ CLASS: _____ DATE: _____

Color in every third number on the road through town.
Starting at number 3.

87



P.O. 2.01.10.02

NAME: _____ CLASS: _____ DATE: _____

Fill in the blanks.

HOW MANY LEAVES IN ALL?

WRITE THE NUMBER UNDER EACH CLOVER.

3 6 ___ ___ ___ ___ ___

___ ___ ___ ___ ___ ___ ___

COMPLETE COUNTING BY THREE'S.

1. 21, 24, 27, ___, ___, ___, ___, ___

2. 45, 48, ___, ___, ___, ___, ___

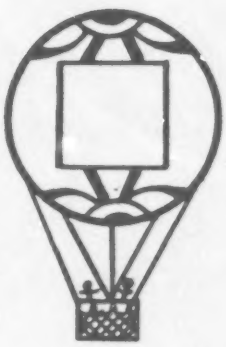
3. 69, 72, ___, ___, ___, ___

4. 87, 90, ___, ___, ___

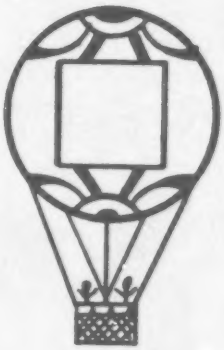
P.O. 2.01.10.02

NAME: _____ CLASS: _____ DATE: _____

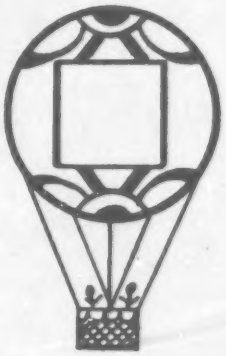
Counting by threes, put the numbers in order.



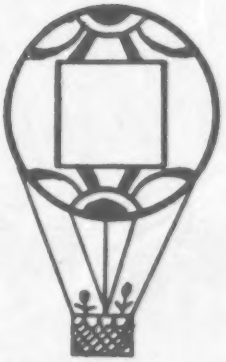
9



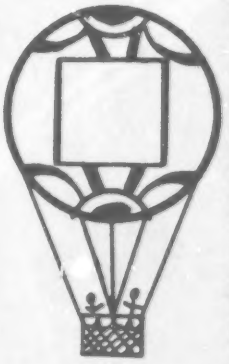
6



3

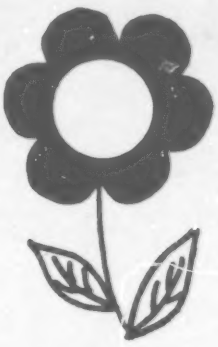


12



15

21

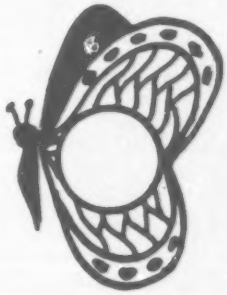


30

18

27

24



36

39

33

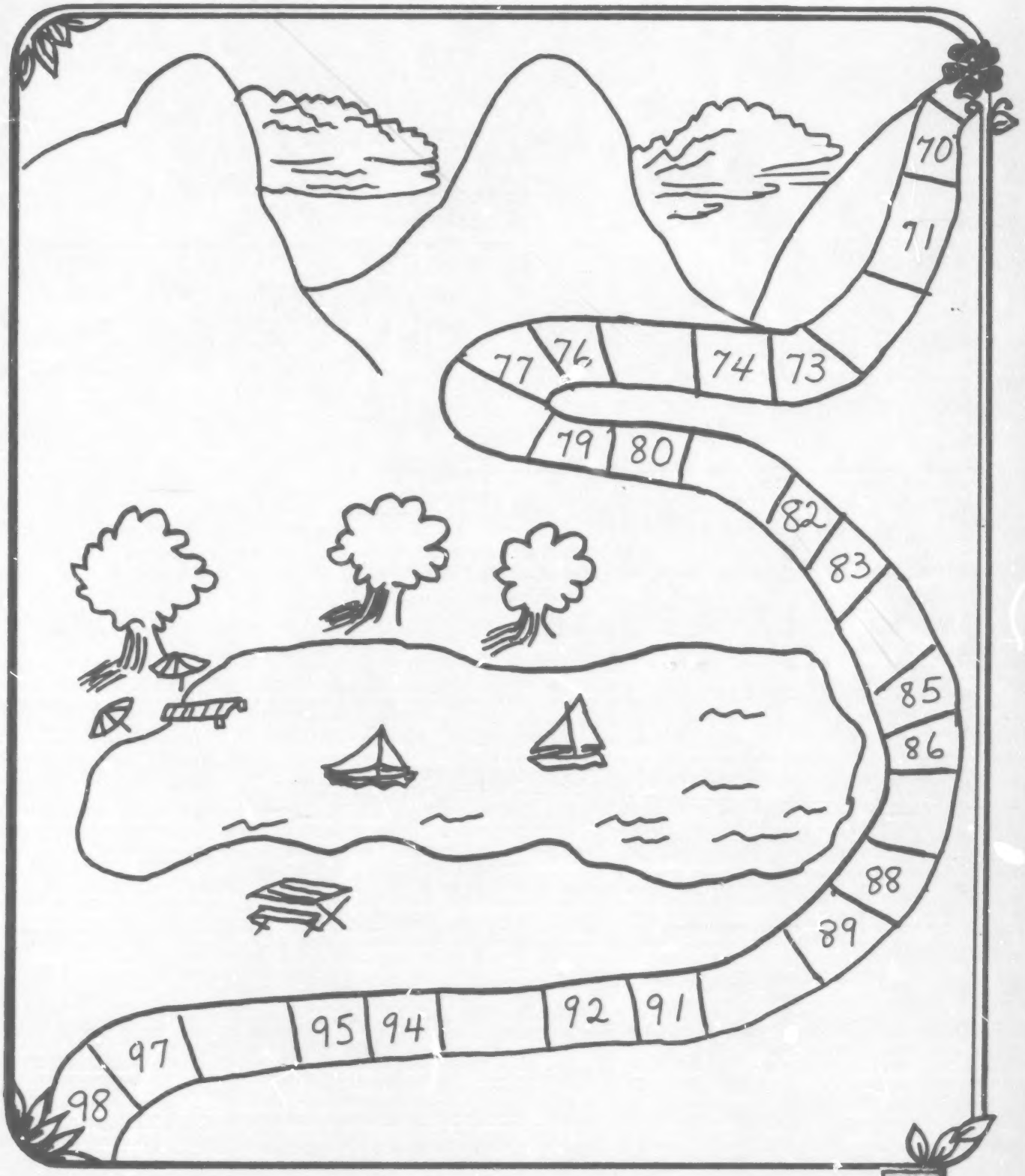
45

42

P.O. 2.01.10.03

NAME: _____ CLASS: _____ DATE: _____

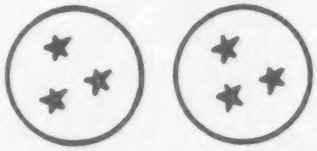
Fill in the empty space with a number. Look for a pattern.



P.O. 2.04.03.01-.02

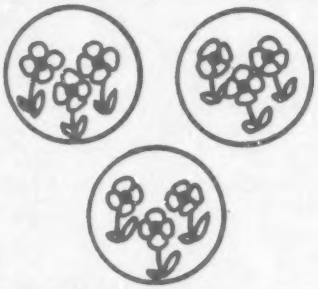
NAME: _____ CLASS: _____ DATE: _____

How many?

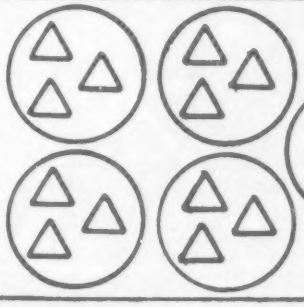


3 TWOS
3 THREES
2 THREES

3 ONES
1 THREE
1 ONE

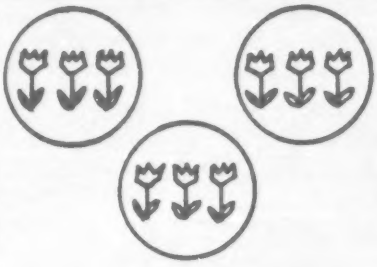


3 TWOS
2 THREES
3 THREES

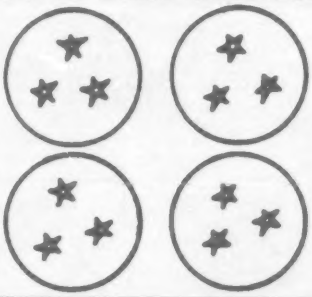


5 THREES
3 FIVES
5 FIVES

3 TWOS
2 TWOS
2 THREES



3 TWOS
3 THREES
2 THREES



4 THREES
3 FOURS
4 FOURS

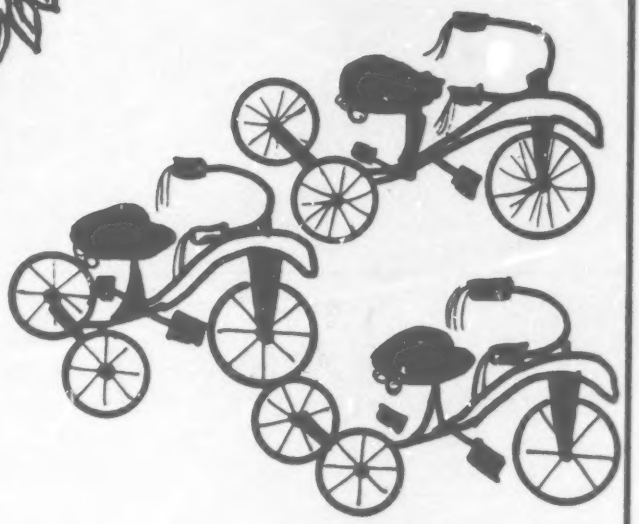
2 TWOS
3 THREES
2 THREES

1 THREE
3 THREES
3 ONES

P.O. 2.04.03.03

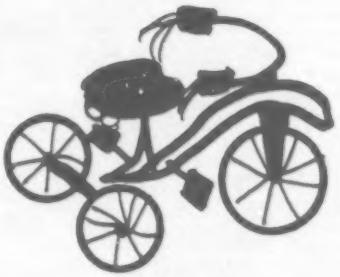
NAME: _____ CLASS: _____ DATE: _____

Count the wheels on the tricycles.

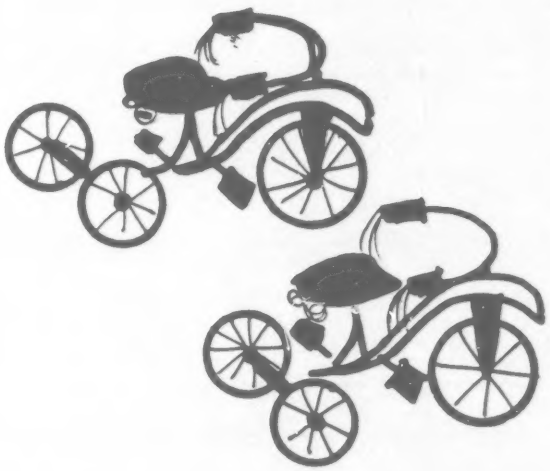


3+3+3=☐

3x3=☐

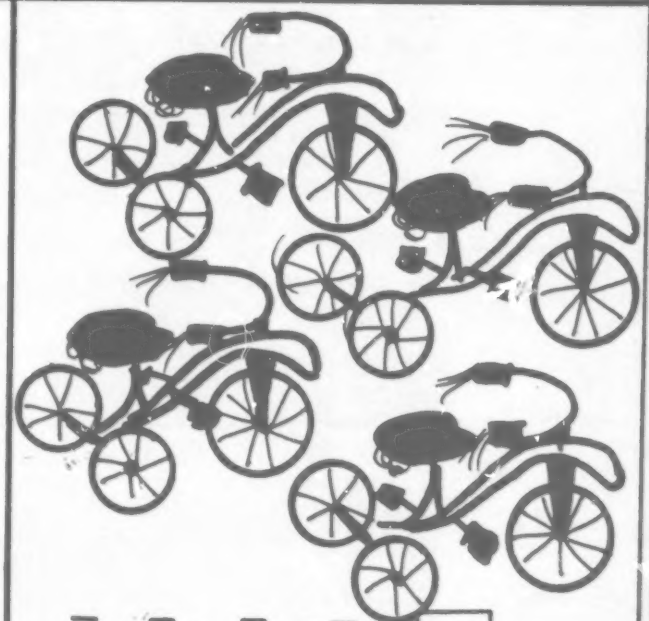


1x3=☐



3+3=☐

2x3=☐



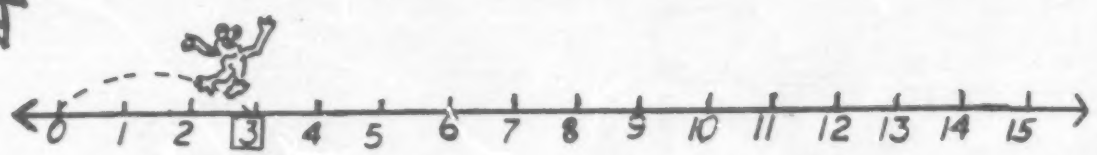
3+3+3+3=☐

4x3=☐

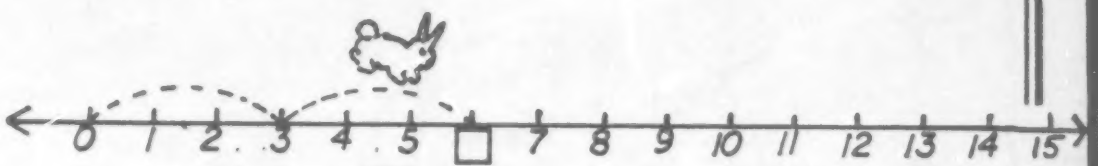
P.O. 2.04.03.04

NAME: _____ CLASS: _____ DATE: _____

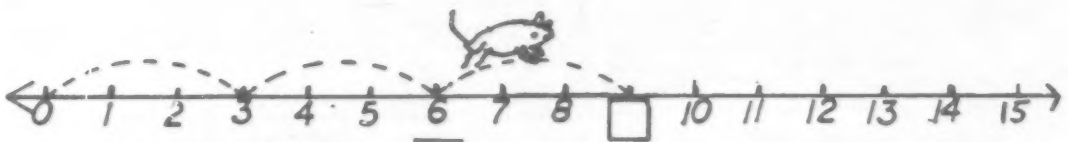
Count the jumps.



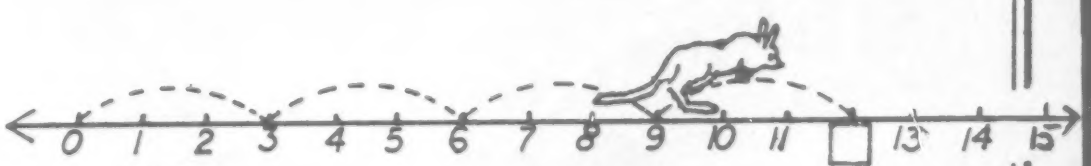
1 three = 3



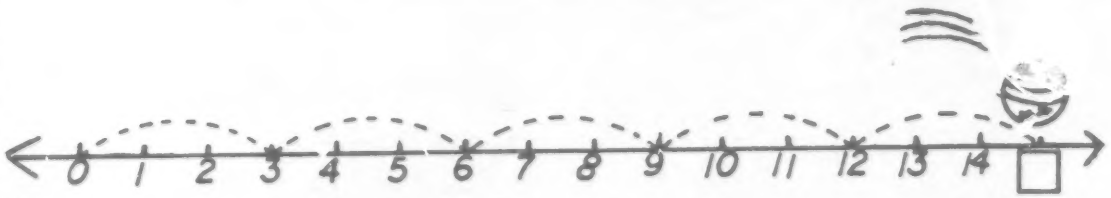
2 threes = □



3 threes = □



4 threes = □

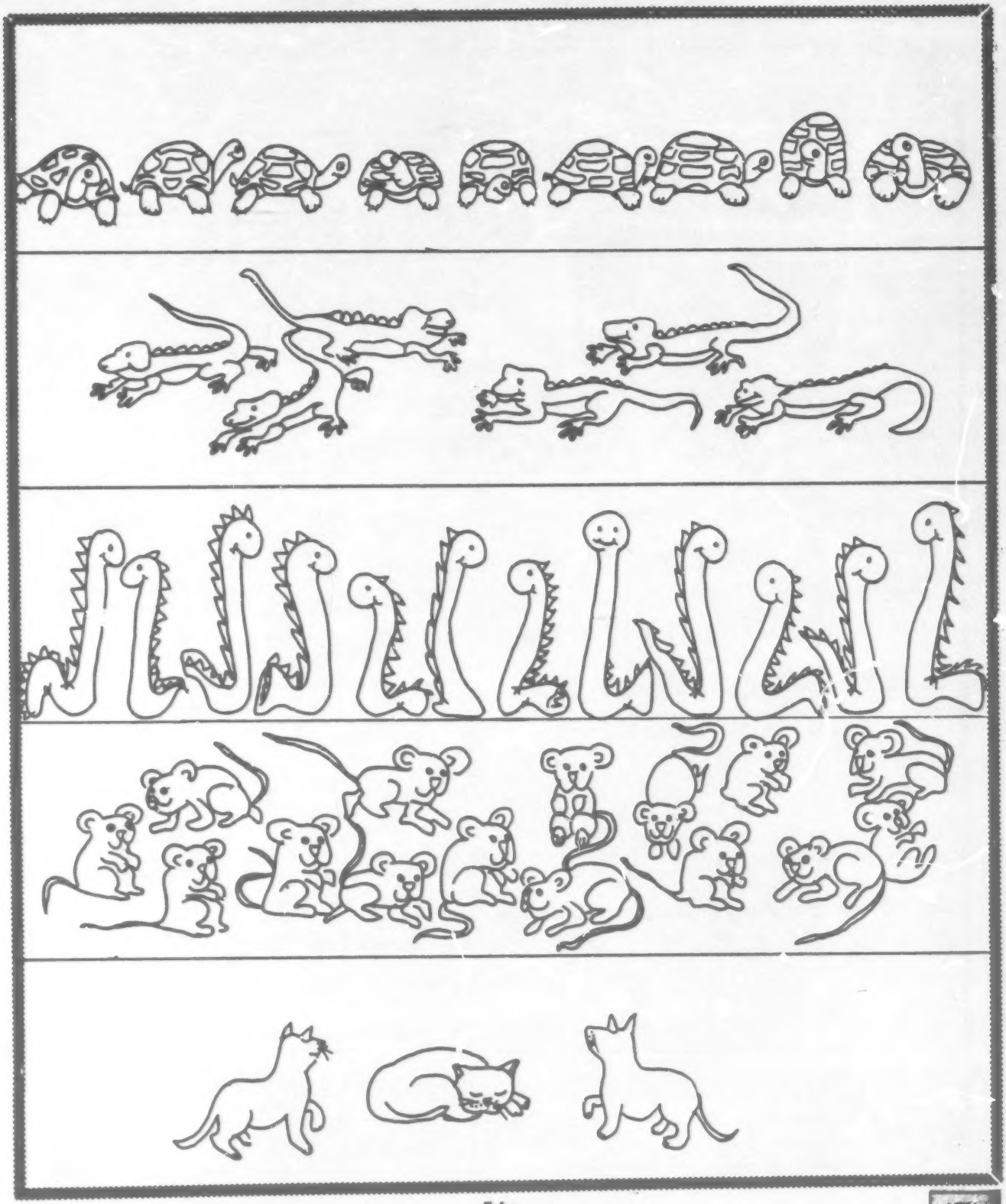


5 threes = □

P.O. 2.05.04.01

NAME: _____ CLASS: _____ DATE: _____

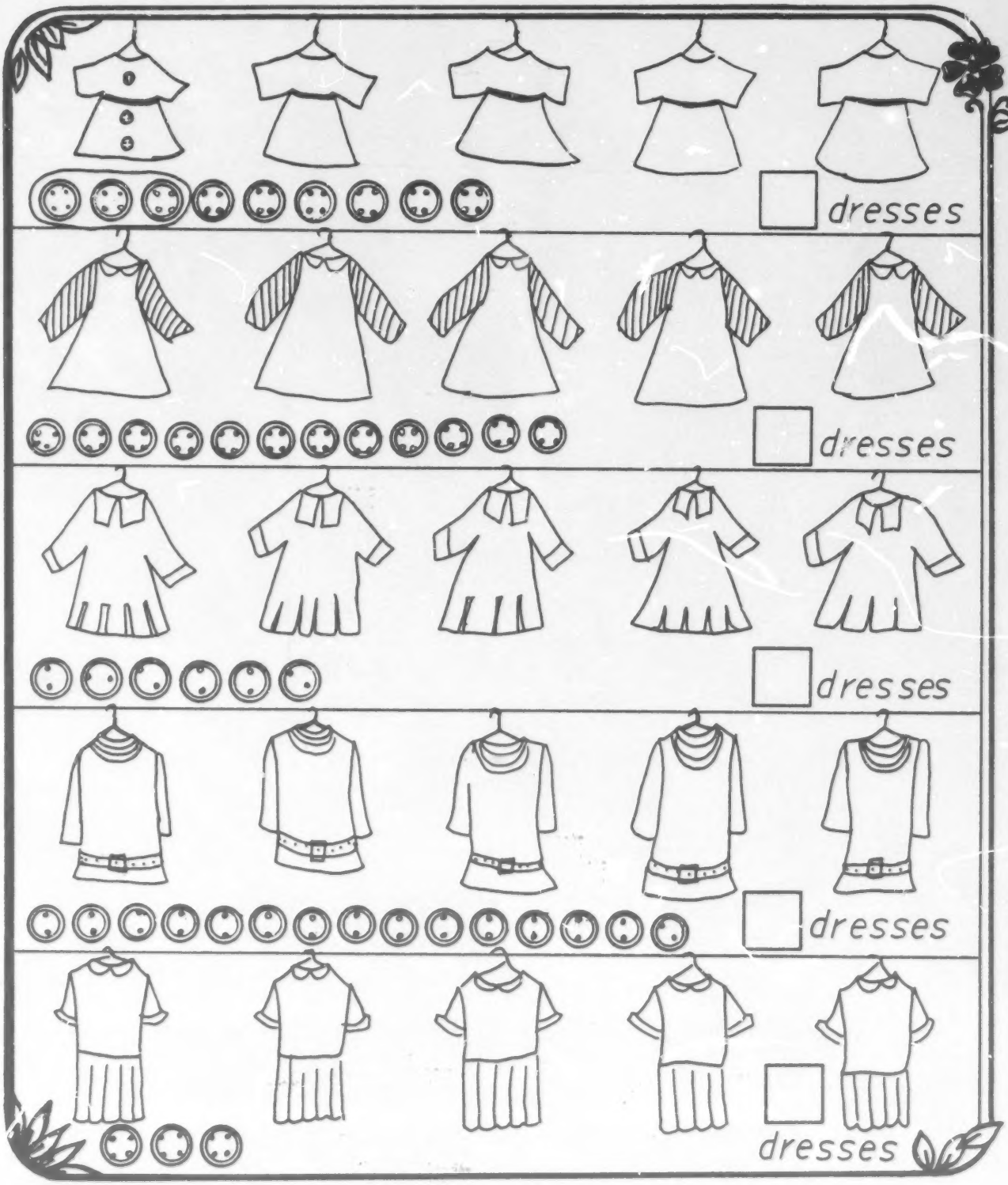
Separate the following objects into groups of 3.



P.O. 2.05.04.02

NAME: _____ CLASS: _____ DATE: _____

Put 3 buttons on each dress. How many dresses will have buttons?
Write the answer in the box.



P.O. 2.05.04.03

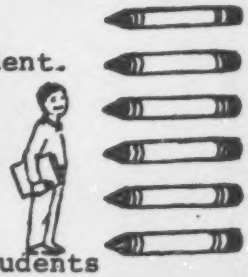
NAME: _____ CLASS: _____ DATE: _____

Circle groups of 3. Write the answer to the problem on the line.

9 keys
3 keys for each door.

_____ doors

6 crayons
3 for each student.

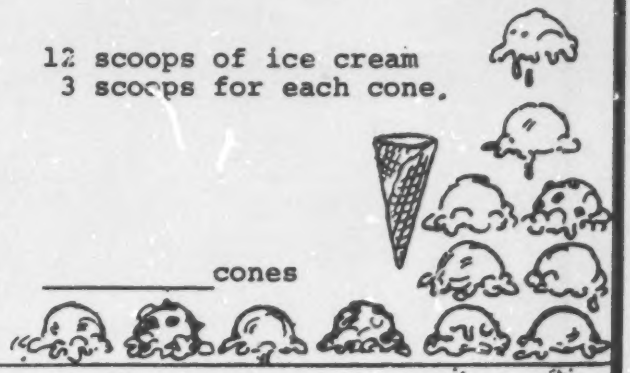


_____ students

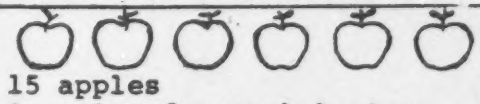
3 birds
3 birds
3 in each nest.

_____ nests

12 scoops of ice cream
3 scoops for each cone.

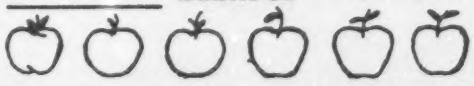


_____ cones



15 apples
3 apples for each basket.

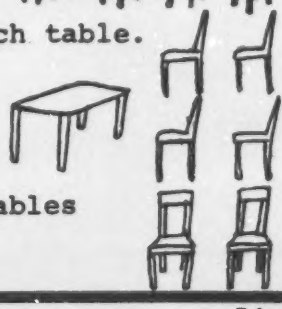
_____ baskets



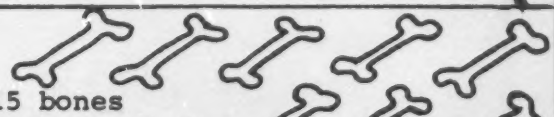
6 flowers
3 flowers in each vase.

_____ vases

12 chairs
3 chairs at each table.



_____ tables



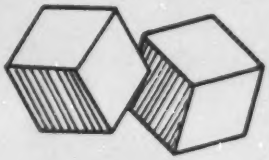
15 bones
3 for each dog.

_____ dogs

P.O. 2.09.03.01L02

NAME: _____ CLASS: _____ DATE: _____

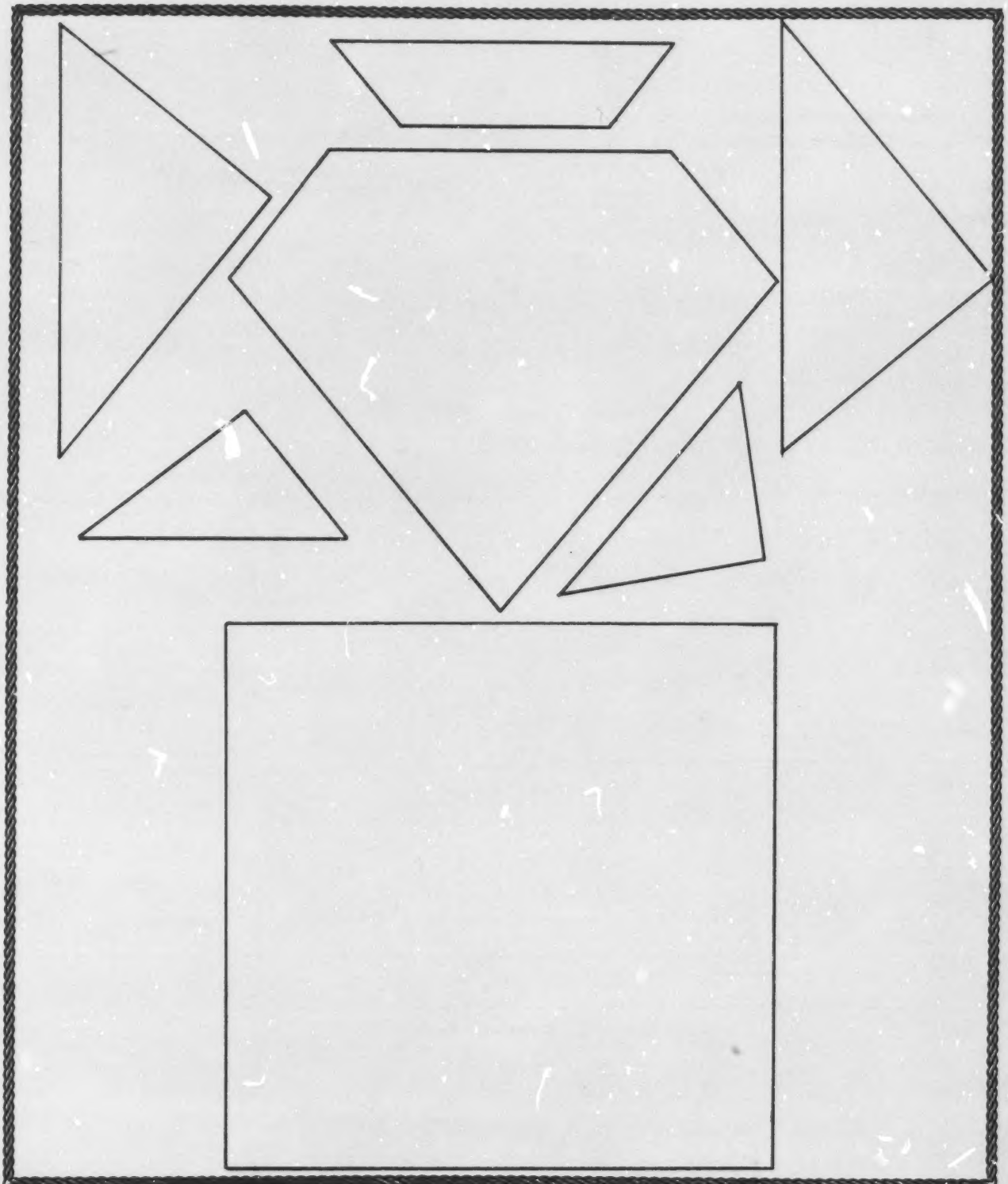
Describe the attributes of each object.

Soup Can	Banana	Blocks
		

P.O. 2.09.03.02

NAME:_____CLASS:_____DATE:_____

Cut out the shapes. Paste them in the square below. Color each shape a different color.



P.O. 2.09.04.01

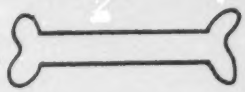
NAME:_____ CLASS:_____ DATE:_____

Follow the directions.

Which designs have lines of symmetry?

1. yes or no

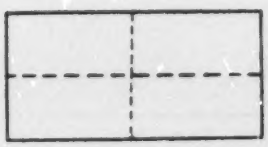
2. yes or no

3.  yes or no

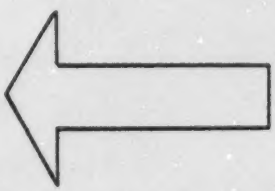
4. yes or no

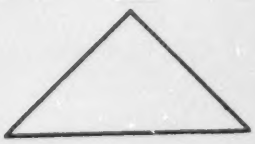
5. yes or no

Draw dotted lines to show a line(s) of symmetry in each shape.

1. 

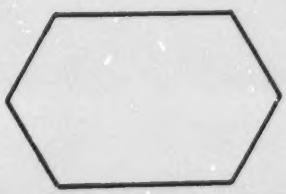
2.

3. 

4. 

5.

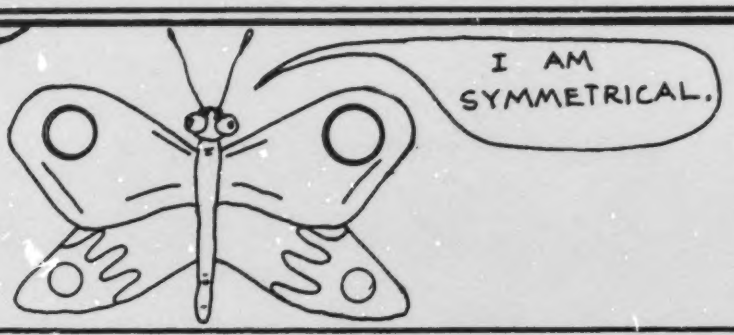
6.

7. 

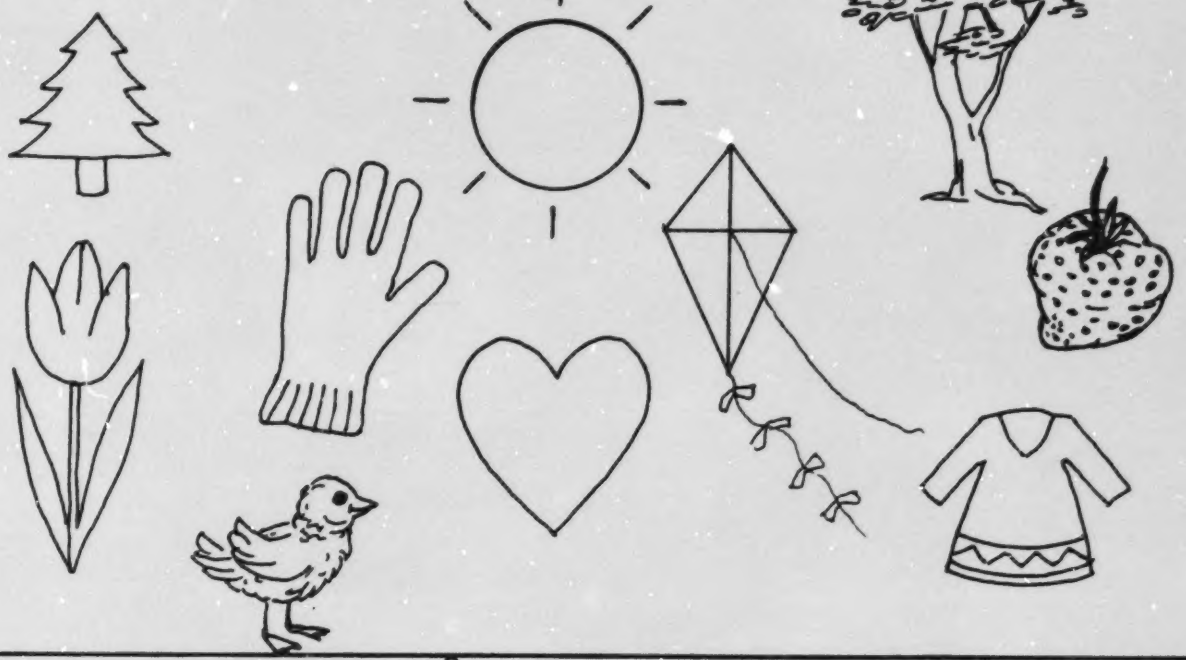
P.O. 2.09.04.02

NAME: _____ CLASS: _____ DATE: _____

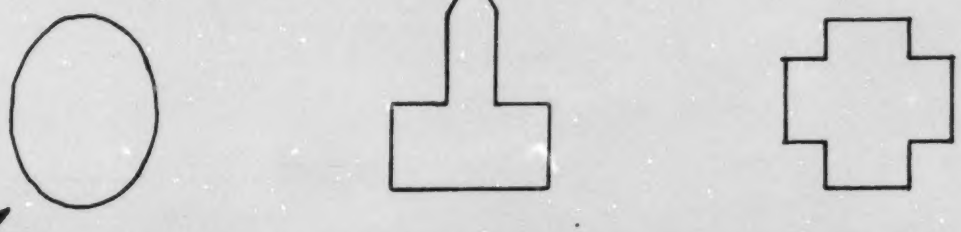
Follow the directions.



Put an X on the objects that have lines of symmetry.



Draw a line of symmetry in each shape.



P.O. 2.13.04.01

NAME: _____ CLASS: _____ DATE: _____

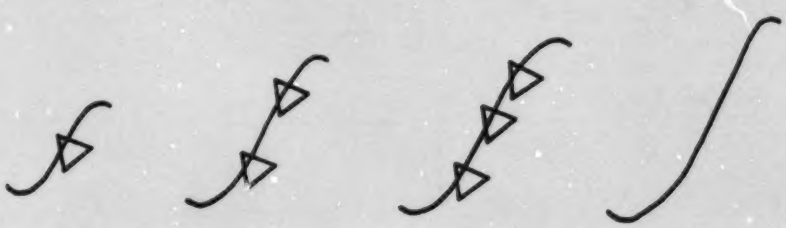
Finish the pattern and state the rule.

The rule is _____.

△△△□□□○○○△△□□○○△□ ___

The rule is _____.

The rule is _____.



The rule is _____.

P.O. 2.13.04.02

NAME: _____ CLASS: _____ DATE: _____

Complete the pattern and state the rule.

15, 12, 9, 6 ☐

State the rule _____

20, 22, 24, 26, ☐

State the rule _____

1, 3, 5, 7, ☐

State the rule _____

20, 15, 10 ☐

State the rule _____

10, 20, 30, 40, 50, ☐

State the rule _____

P.O. 2.13.04.03

NAME:_____CLASS:_____DATE:_____

Draw a pattern in each box. State your rule.

P.O. 2.12.04.01

NAME:_____ CLASS:_____ DATE:_____

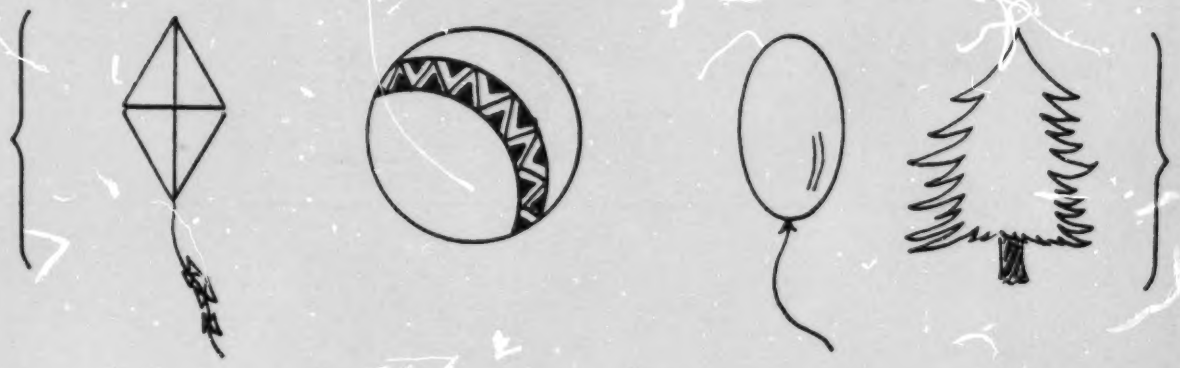
Make as many arrangements as you can using these three pictures:

Use the letters **MOV** to make six different letter arrangements. Use each letter only once in each arrangement.

P.O. 2.12.04.02

NAME: _____ CLASS: _____ DATE: _____

Draw a subset in each bracket.



A

B

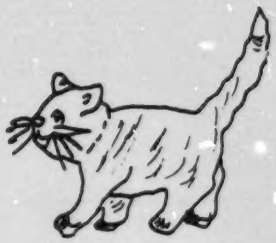
C

D

P.O. 2.12.04.03

NAME:_____CLASS:_____DATE:_____

Use the three pictures to make 3 new groups with only two in each group.



P.O. 2.02.06.01

NAME:_____ CLASS:_____ DATE:_____

Solve each example using expanded notation.

Think and Solve by Expanding

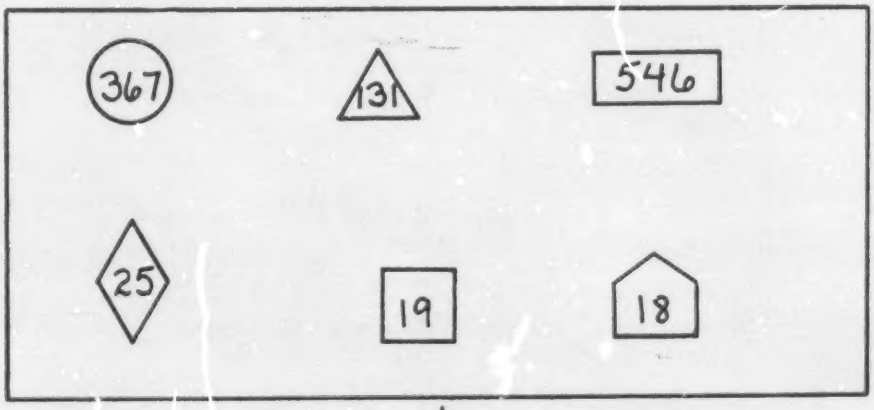
$$165 = 100 + 60 + 5$$
$$+\ 18 = +\quad 10 + 8$$
$$100 + 70 + 13$$
$$100 + 80 + 3 = 183$$

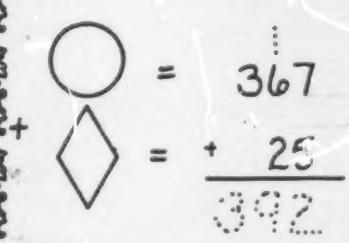
$237 + 46$	$619 + 74$
$328 + 265$	$744 + 127$

P.O. 2.02.06.02

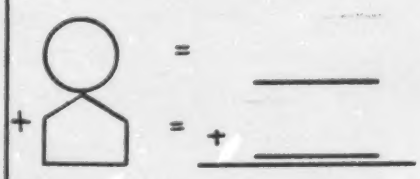
NAME:_____ CLASS:_____ DATE:_____

Break the secret code. Be sure to show the regrouping when you add. Check your work.

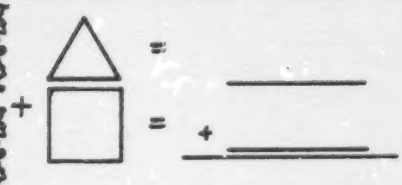




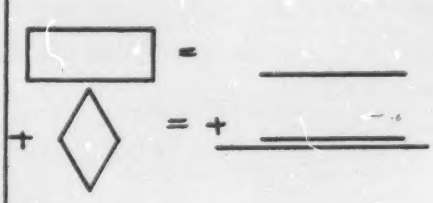
check



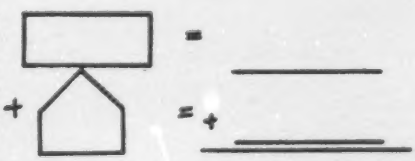
check



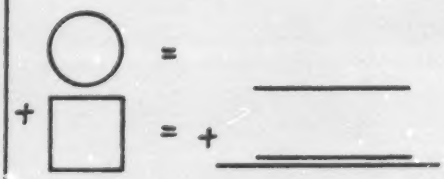
check



check



check



P.O. 2.02.06.03

NAME: _____ CLASS: _____ DATE: _____

Write the name of the items next to their prices. Add to find the amount. Be sure to show the regrouping. Check your answers.

Price List

Bread	₱1.19	Soda	.55
Milk	₱1.26	Eggs	.69
Coffee	₱2.39	Butter	.47
Meat	₱3.45	Soup	.29

₱1.19 Bread + .69 Eggs ₱1.88 check	₱2.39 _____ + .55 _____ check
₱1.26 _____ + .29 _____ check	₱1.19 _____ + .47 _____ check
₱2.39 _____ + .47 _____ check	₱3.45 _____ + .29 _____ check
₱3.45 _____ + .47 _____ check	₱1.26 _____ + .55 _____ check

P.O. 2.02.06.04

NAME:_____ CLASS:_____ DATE:_____

Solve each story problem. Be sure to show your work
Check your answer.

DOG AND CAT POUND

Dogs - 29
Cats - 67
Total 96

Central Park has 115 oak trees and 87 maple trees. How many trees are there in all?

I counted 113 stars last night. My brother counted 77. How many did we count altogether?

My reading book has 24 pages. My math book has 168 pages. How many pages are there in both books?

Maria saw 154 roses and 29 daises at the Botanical Gardens. How many flowers did she see in all?

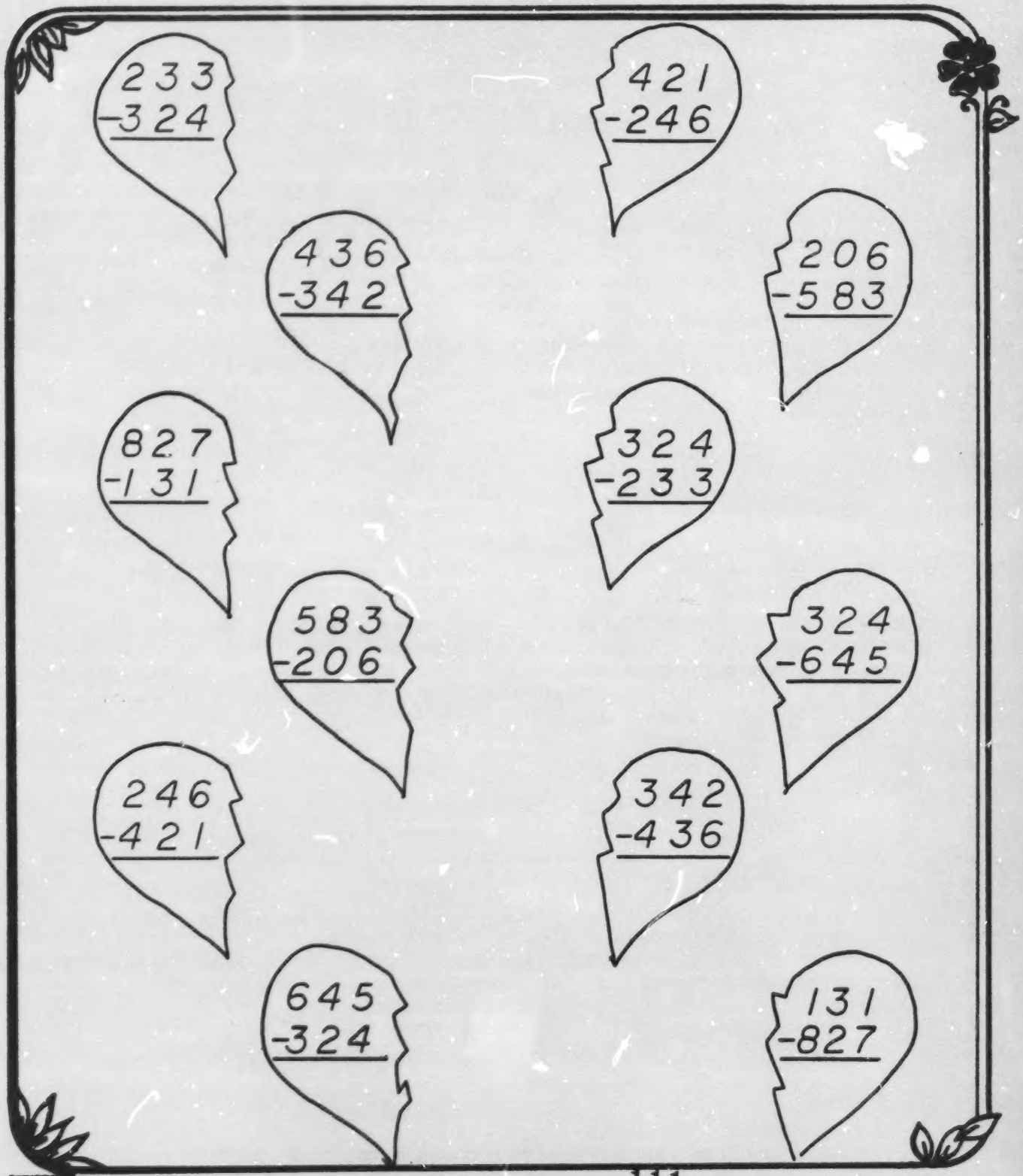
Mother went toy shopping. She bought a dolls hat for $3.09 and a purse for $.87. How much did she spend altogether?

I bought a notebook for $1.57 and a box of crayons for $.39. How much did I spend altogether?

P.O. 2.02.07.01

NAME:_____ CLASS:_____ DATE:_____

Find the sums. Mend the broken hearts by connecting the halves that have the same sums. What do you notice about the examples?



P.O. 2.02.07.02

NAME:_____ CLASS:_____ DATE:_____

Follow the directions as given below in Part A and Part B.

A. Complete the number table by filling in the missing sums.

+	1	2	3	4	5	6	7	8	9	10
1	2	3		5	6			9	10	
2		4	5	6		8	9		11	
3	4	5			8	9		11		13
4	5		7	8	9		11		13	14
5			8		10		12		14	
6		8	9	10		12		14		16
7				11	12	13	14		16	17
8	9	10			13		15	16		
9	10	11	12	13		15		17	18	19
10	11		13		15	16	17		19	20

B. Find the sums of the following pairs of numbers. Outline the diagonal formed using the color given.

2 + 3 = [5] 3 + 2 = [5] (red)	8 + 7 = [ ] 7 + 8 = [ ] (yellow)
4 + 3 = [ ] 3 + 4 = [ ] (blue)	1 + 2 = [ ] 2 + 1 = [ ] (brown)
5 + 6 = [ ] 6 + 5 = [ ] (green)	10 + 9 = [ ] 9 + 10 = [ ] (orange)
7 + 6 = [ ] 6 + 7 = [ ] (black)	

P.O. 2.02.07.03

NAME:_____ CLASS:_____ DATE:_____

Maria did not complete her homework. Help her by filling in the missing numbers. Use the associative property of multiplication.

P.S. 105X — Maria Montez

Class 2-313 — January 30, 1984

Math Homework

$400 + (\square + 6) = (400 - 30) - \square$

$(\square - 40) - 2 = 300 - (\square - 2)$

$800 - (20 - \square) = (800 - \square) - 7$

$(600 - 40) - 5 = \square - (40 - \square)$

$400 - (20 - \square) = (400 - \square) - 1$

$(100 - \square) - \square = 100 - (30 - 1)$

$\square - (20 - 1) = (400 - \square) - 1$

$(500 - \square) - 3 = \square - (80 - 3)$

P.O. 2.03.04.01

NAME: _____ CLASS: _____ DATE: _____

Is the sentence true?
Answer yes or no for each question.

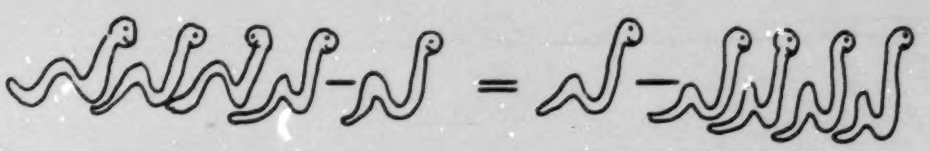
$4 + 1 = 1 + 4$ ☐

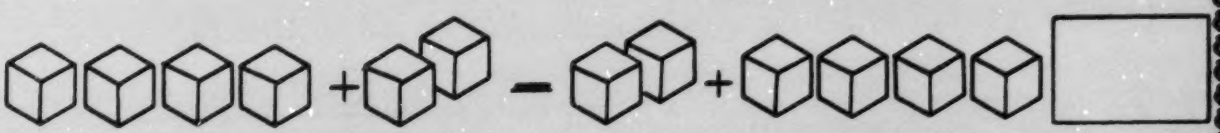
$6 + 2 = 2 + 6$ ☐

$4 - 1 = 1 - 4$ ☐

$5 - 3 = 3 - 5$ ☐

☐

 ☐

 ☐

P.O. 2.03.04.02

NAME:_____ CLASS:_____ DATE:_____

Use the table to find the opposite of the number sentence. Write an opposite number sentence below the original sentence.

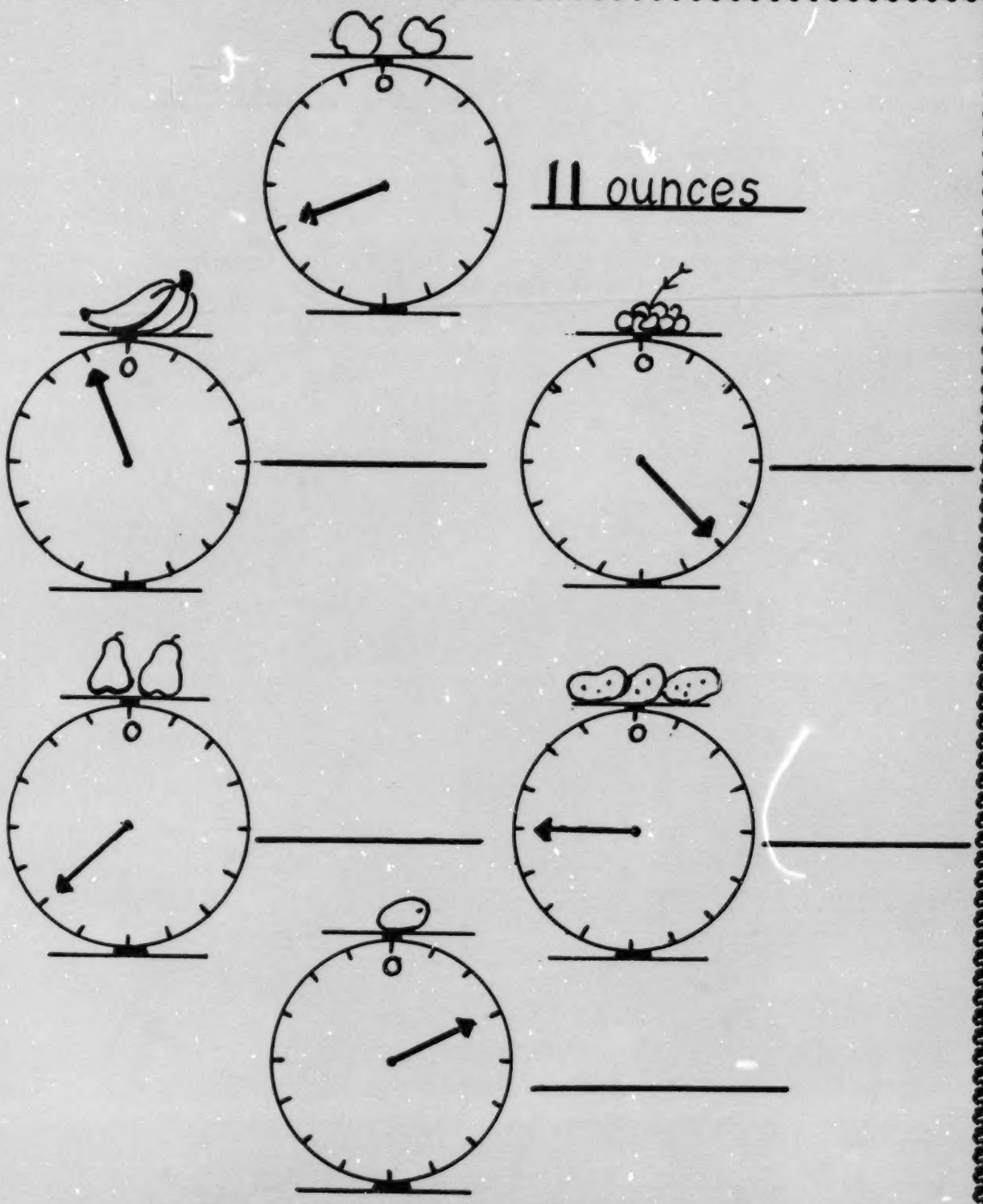
+	1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9	10
2	3	4	5	6	7	8	9	10	11
3	4	5	6	7	8	9	10	11	12
4	5	6	7	8	9	10	11	12	13
5	6	7	8	9	10	11	12	13	14
6	7	8	9	10	11	12	13	14	15
7	8	9	10	11	12	13	14	15	16
8	9	10	11	12	13	14	15	16	17
9	10	11	12	13	14	15	16	17	18

① $3+4=7$ $7-4=3$	⑥ $7+9=16$ _____
② $9-3-6$ _____	⑦ $14-9-5$ _____
③ $13-7=6$ _____	⑧ $7+8=15$ _____
④ $8+4=12$ _____	⑨ $9-5=4$ _____
⑤ $12-7=5$ _____	⑩ $5+6=11$ _____

P.O. 2.10.12.01

NAME: _____ CLASS: _____ DATE: _____

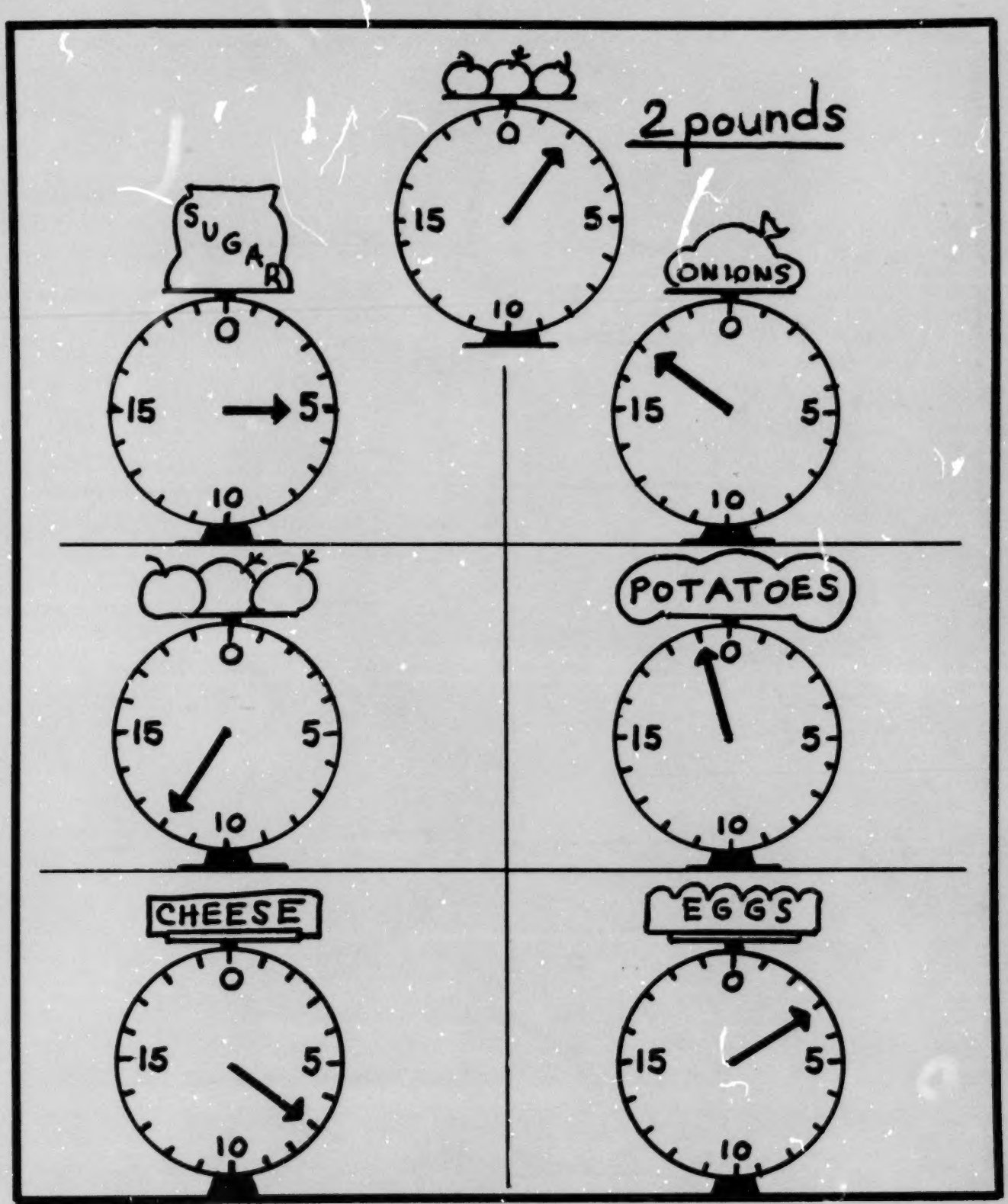
Write the weight of each fruit in ounces.



P.O. 2.10.12.01

NAME: _____ CLASS: _____ DATE: _____

Give the weight of each food in pounds.

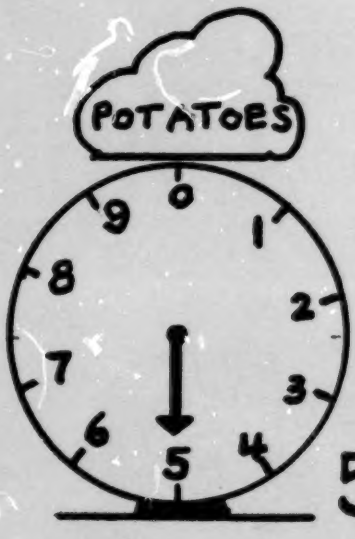


P.O. 2.10.12.02

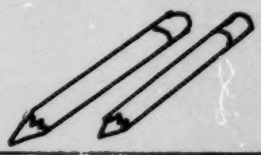
NAME:_____ CLASS:_____ DATE:_____

Mark the box (✓) which shows the weight we would use to measure each object.

7 ozs.



5 lbs.

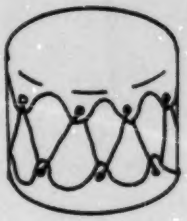
	ozs.	lbs.
basketball		
bananas		
baby		
 pencils		
feathers		

P.O. 2.13.05.01

NAME: _____ CLASS: _____ DATE: _____

Do you have enough information to solve the problem?
Circle Yes or No.

4 red drums.
6 blue drums.
How many drums in all?

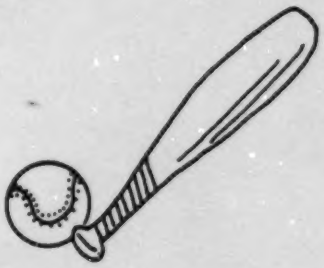


Yes No

Tom has 30 baseball cards. He gave some to Jim. How many does he have left?

Yes No

Peter played ball with his friends for 2 hours.
What time did he stop playing?



Yes No

Joan wanted to give 3 balls away. She had 6. How many did she have left?

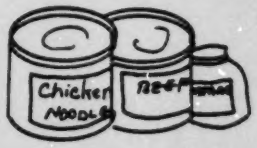
Yes No

P.O. 2.13.05.02

NAME:_____ CLASS:_____ DATE:_____

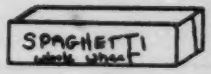
What information is missing?

1. Tania bought 2 cans of soup and 1 jar of mustard. What was the total cost?



2. Robert eats lots of bananas. How many does he eat in 4 days?

3. John bought spaghetti. He gave the cashier $2.00. How much change did he get?



4. Bill walked to the playground. How many blocks did he walk?

5. Darlene dances everyday. How many hours does she dance in one week?

P.O. 2.01.11.01

NAME:_____ CLASS:_____ DATE:_____

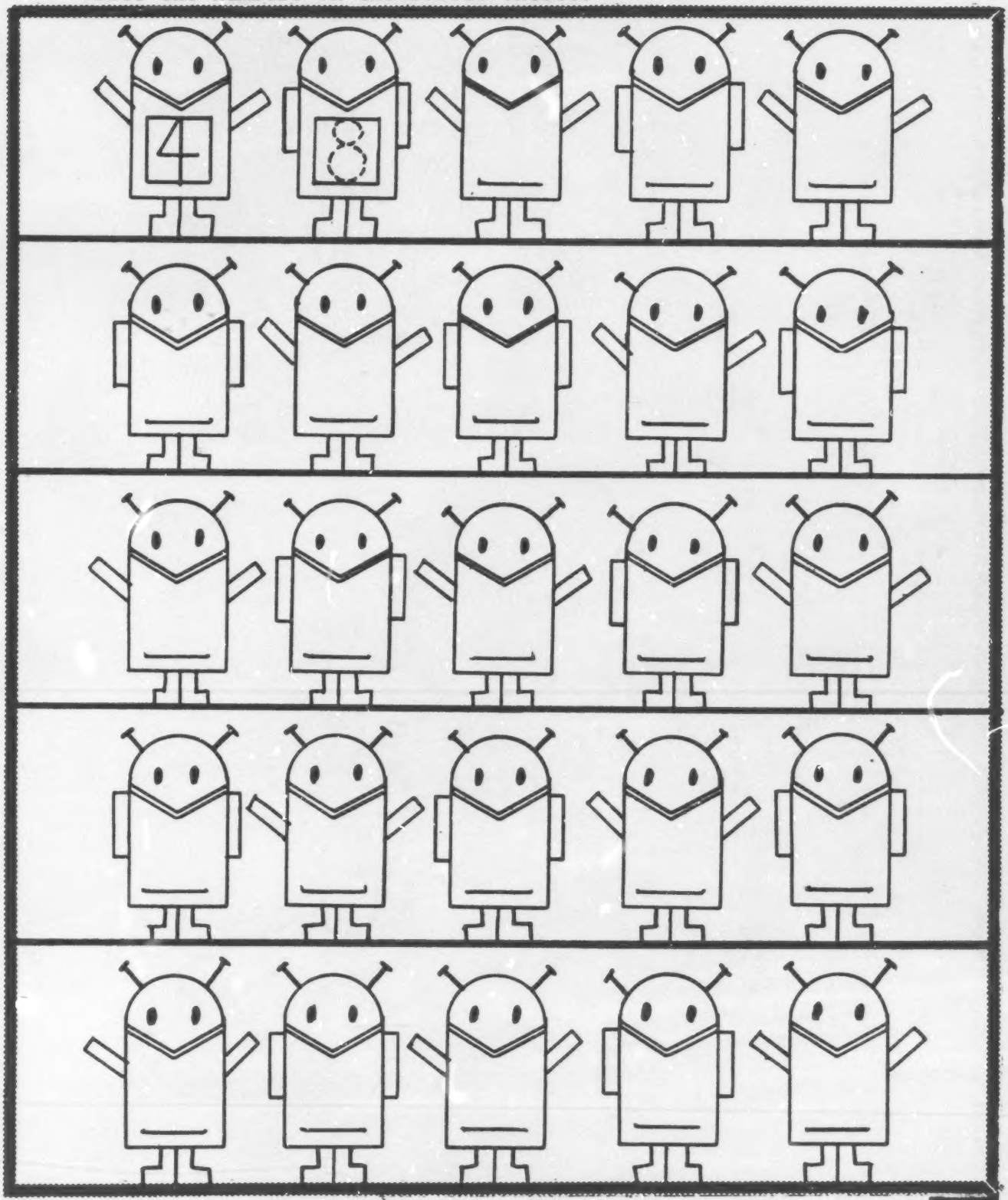
This monster can only eat numerals that are named when she counts by 4. Feed the Number Monster by coloring the numerals s/he can eat. Hint: s/he wants 25 numerals.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

P.O. 2.01.11.02

NAME:_____ CLASS:_____ DATE:_____

These robots work in an office building delivering mail. Every morning they leave their workroom in counting order of fours. Write the numbers on the robot's chests.



P.O. 2.01.11.03

NAME: _____ CLASS: _____ DATE: _____

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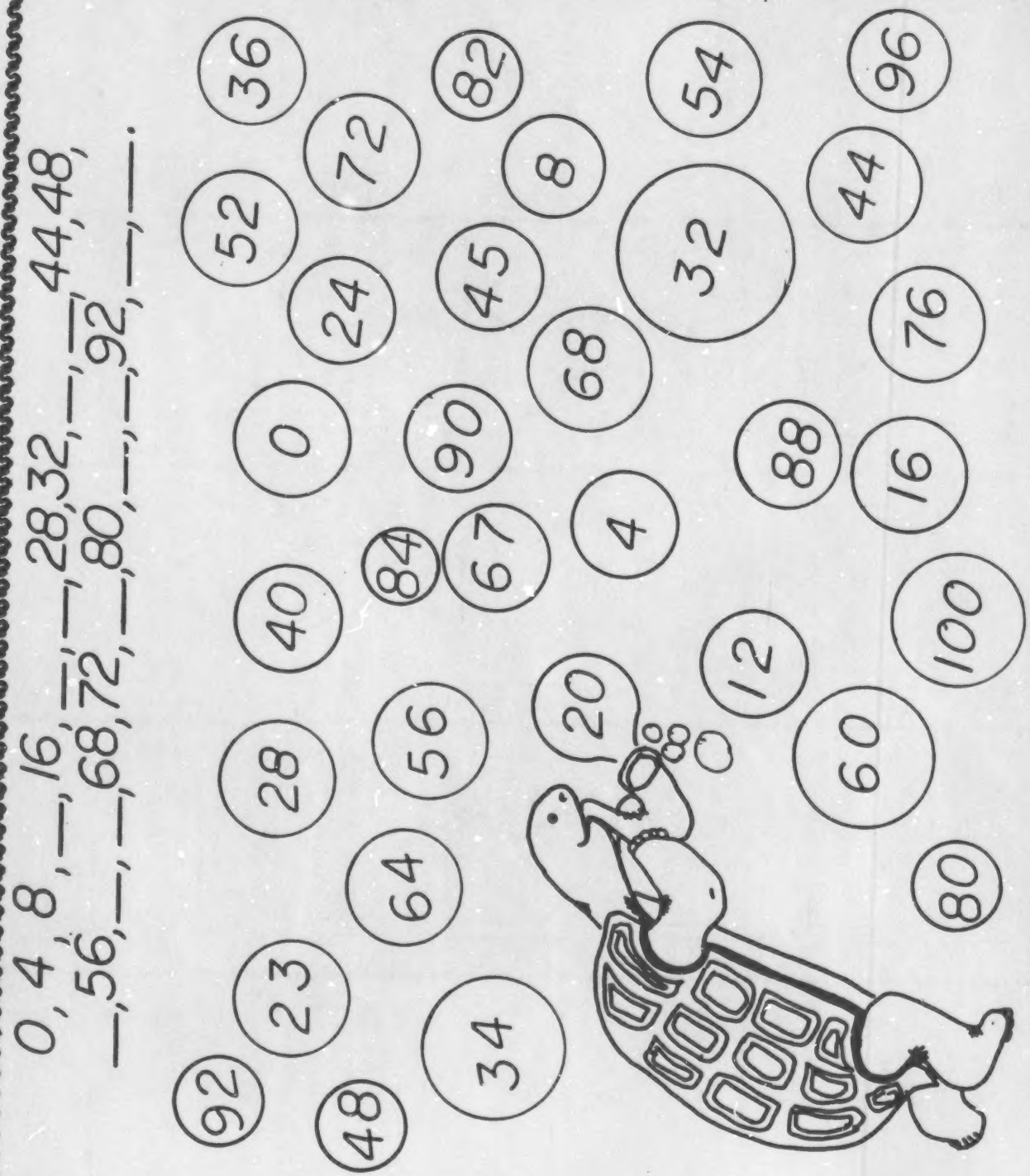
Count by fours. Color the balloons that match the numbers you see at the top of the page.

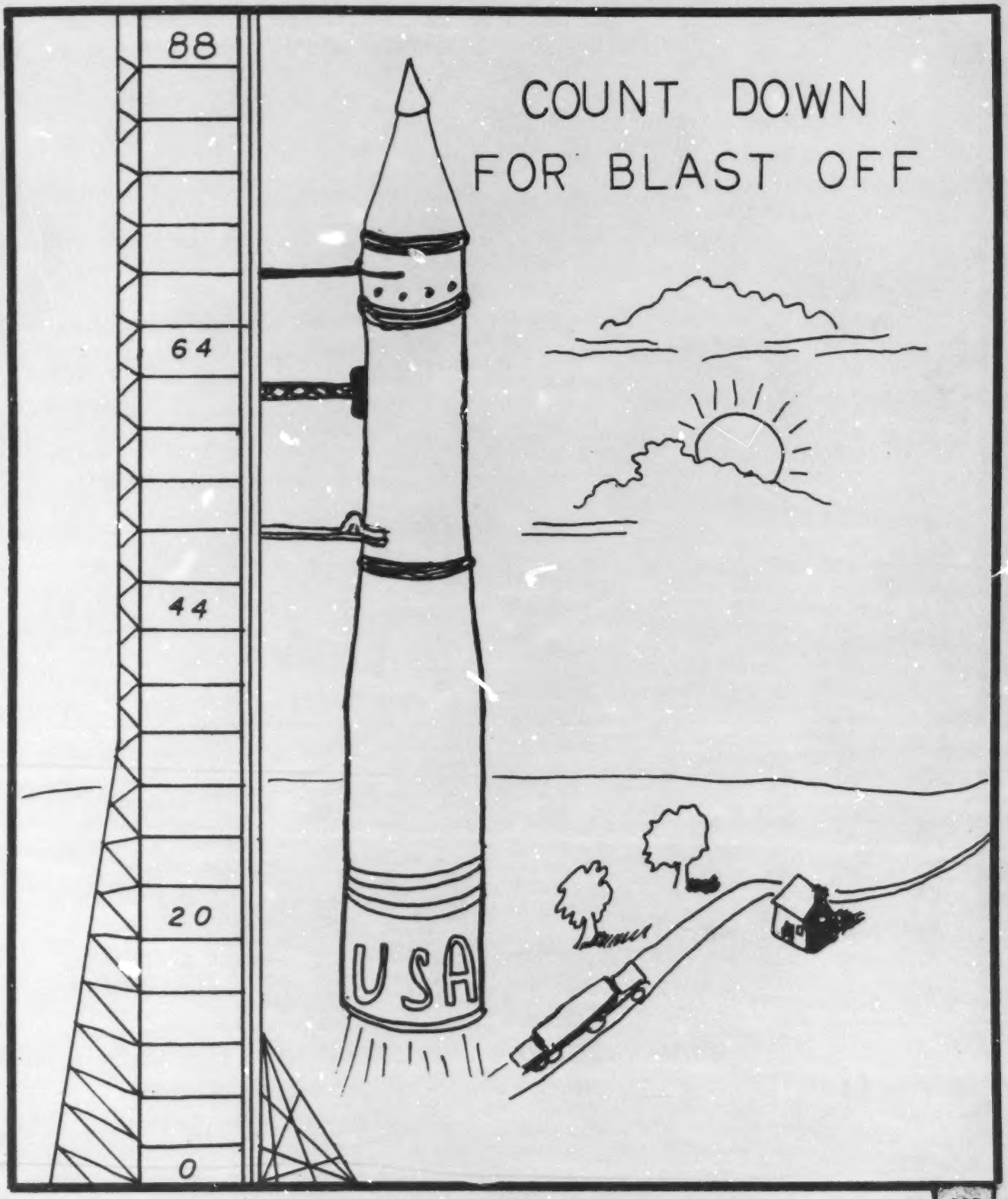
0, 4, 8, —, 16, —, —, 28, 32, —, —, 44, 48,
—, 56, —, 68, 72, —, —, 80, —, 92, —, —, —.



P.O. 2.01.11.04

NAME:_____CLASS:_____DATE:_____

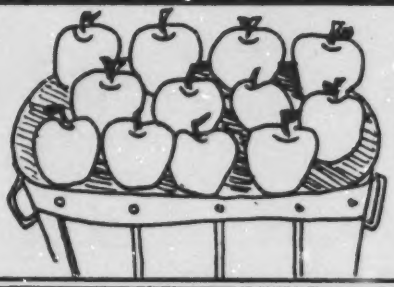
This rocket ship is about to blast off. The time is 88 seconds. Count the numbers backward from 88 to 0 by fours. Write them on the lines.



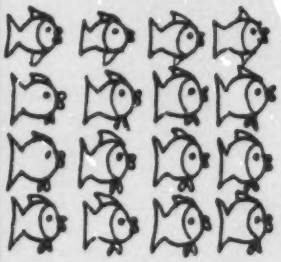
P.O. 2.04.04.01

NAME:_____ CLASS:_____ DATE:_____

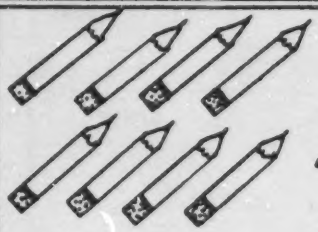
Follow the directions.



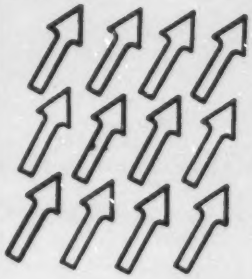
3 fours=12



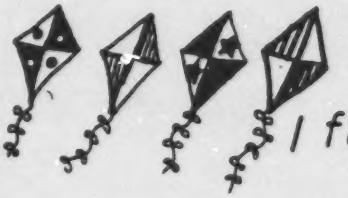
4 fours= ☐



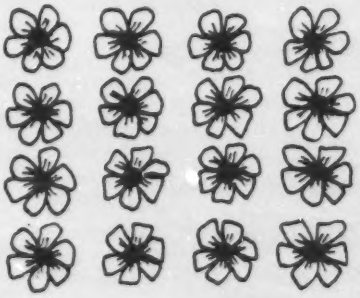
2 fours= ☐



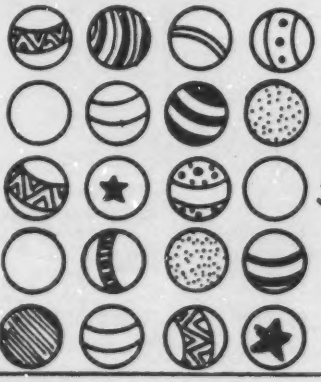
3 fours= ☐



1 four= ☐

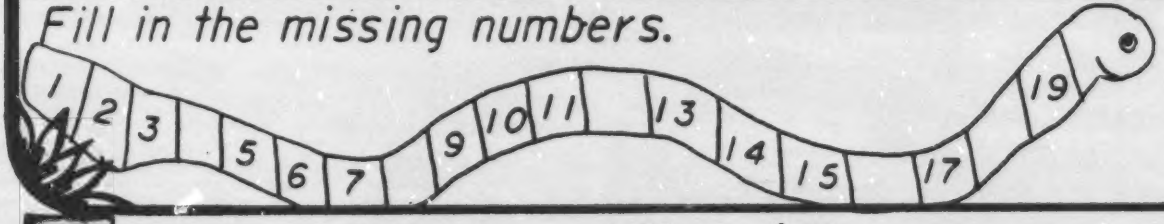


4 fours= ☐



5 fours= ☐

Fill in the missing numbers.



P.O. 2.04.04.02

NAME:_____ CLASS:_____ DATE:_____

Fill in the blanks.

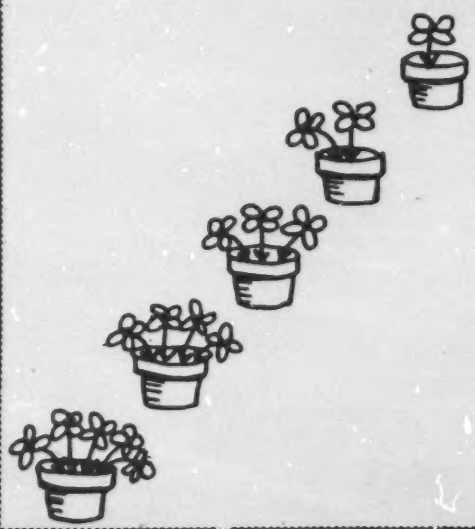
1 butterfly, ⁘ wings, 1 x 4 = 4

2 butterflies, __ wings, ⁖ x ⁘ = ⁙

3 butterflies, __ wings, __ x __ =

4 butterflies, __ wings, __ x __ =

5 butterflies, __ wings, __ x __ =



1 flower, ⁘ petals, __ x __ =

2 flowers, __ petals, __ x __ =

3 flowers, __ petals, __ x __ =

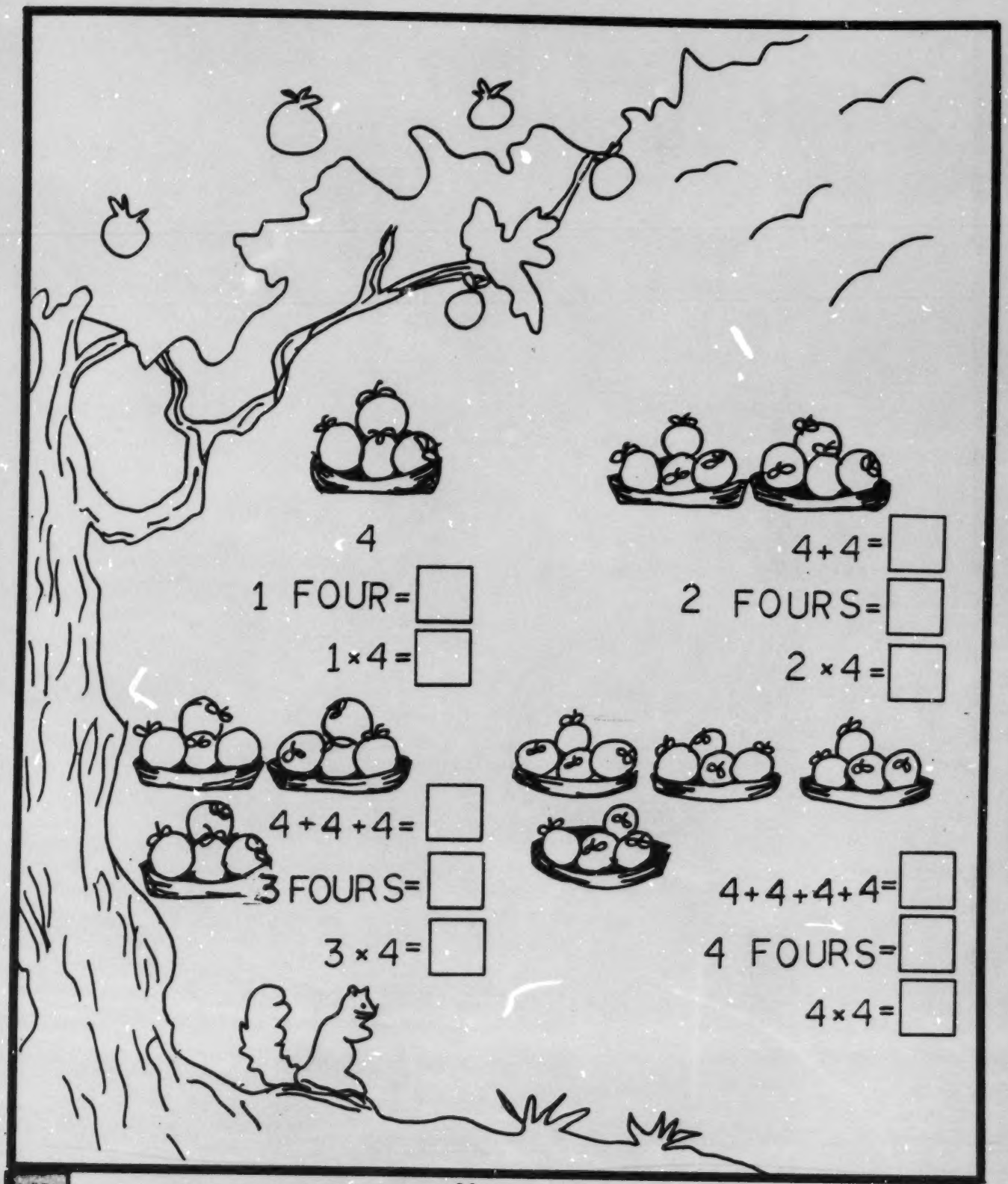
4 flowers, __ petals, __ x __ =

5 flowers, __ petals, __ x __ =

P.O. 2.04.04.03

NAME: _____ CLASS: _____ DATE: _____

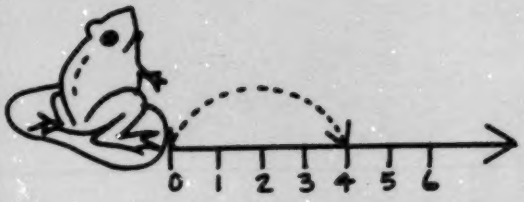
Fill in the blanks.



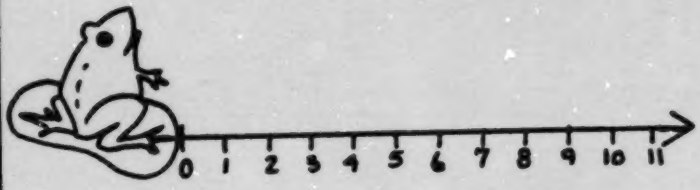
P.O. 2.04.04.04

NAME:_____ CLASS:_____ DATE:_____

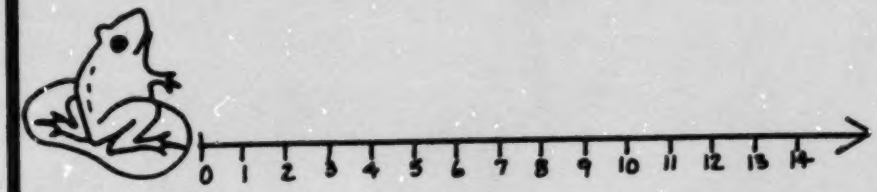
Count by fours to help froggie. Mark off the number line.



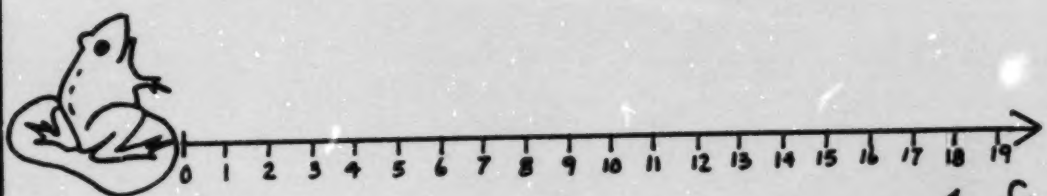
1 four



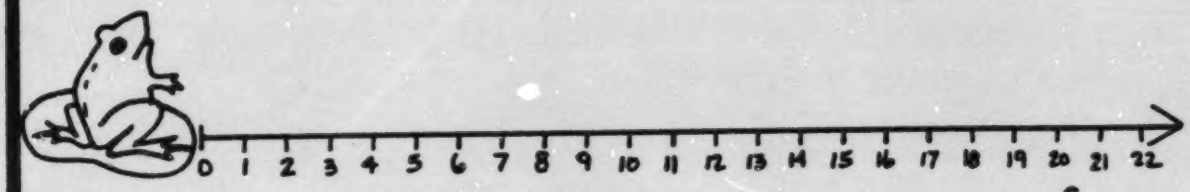
2 fours



3 fours



4 fours

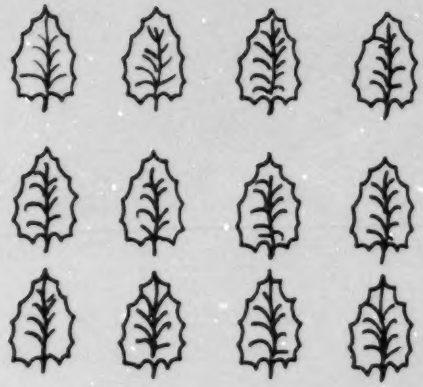


5 fours

P.O. 2.05.05.01

NAME: _____ CLASS: _____ DATE: _____

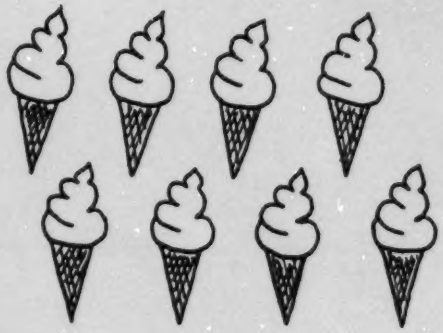
Draw a ring around groups of 4. Fill in the blanks for each problem.



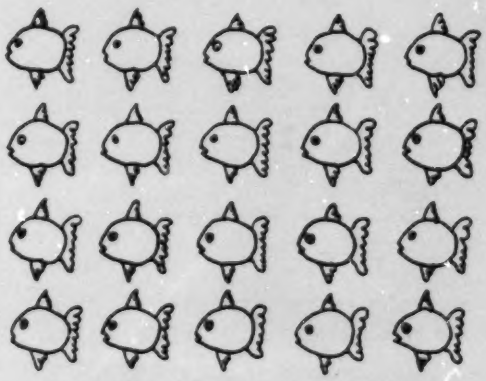
How many groups of 4? _____

How many groups of 4? _____

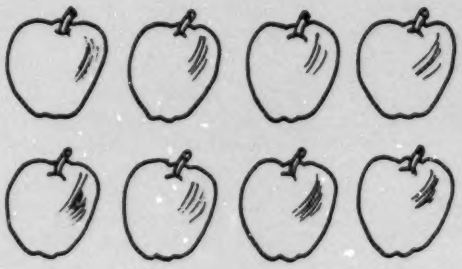
How many groups of 4? _____



How many groups of 4? _____



How many groups of 4? _____

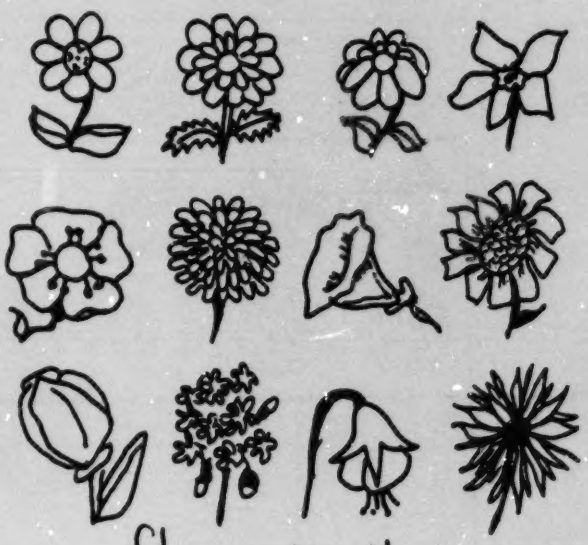


How many groups of 4? _____

P.O. 2.05.05.02

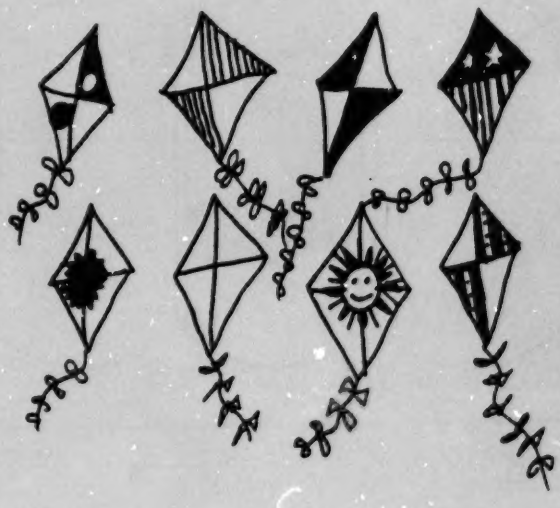
NAME: _____ CLASS: _____ DATE: _____

Circle groups of 4. Fill in the blank.



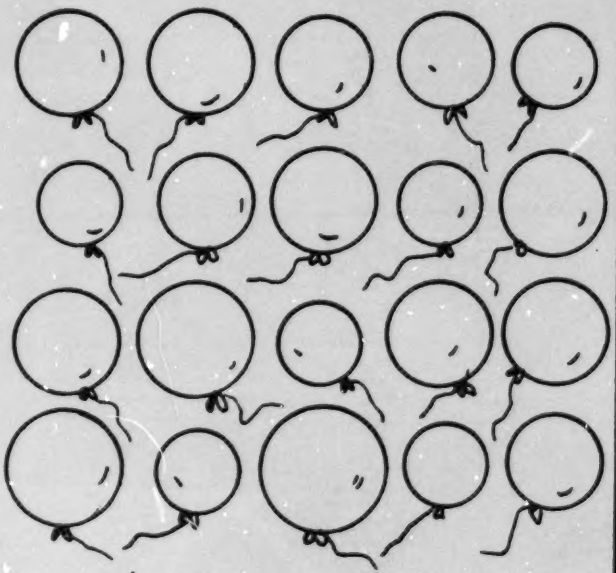
____ flowers in all.

____ groups of 4.



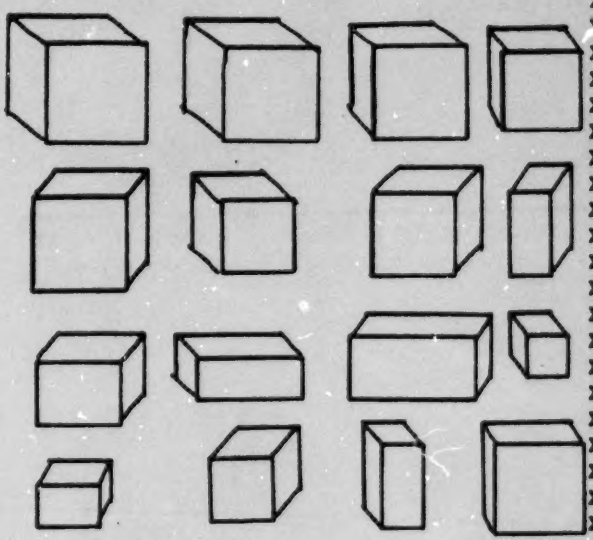
____ kites in all.

____ groups of 4.



____ balloons in all.

____ groups of 4.



____ boxes in all.

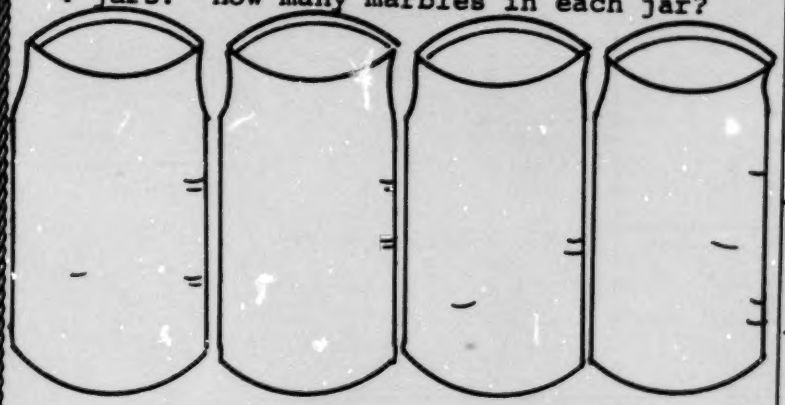
____ groups of 4.

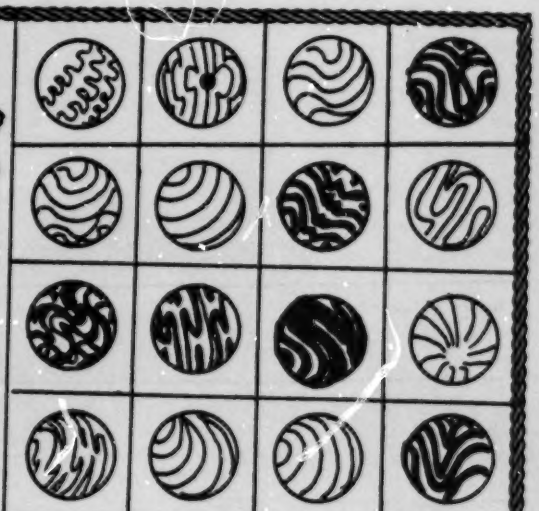
P.O. 2.05.05.03

NAME: _____ CLASS: _____ DATE: _____

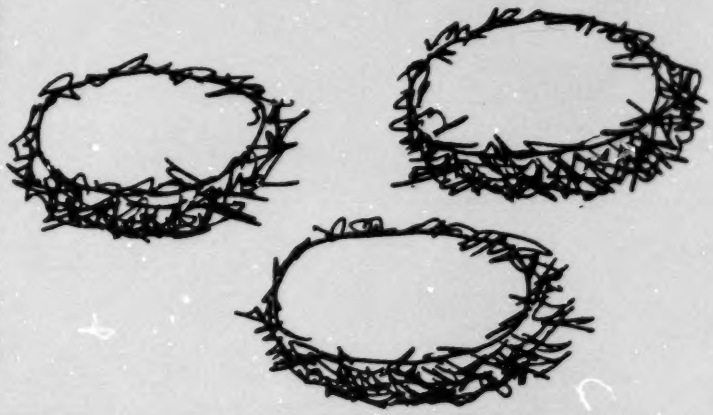
Solve the story problems.

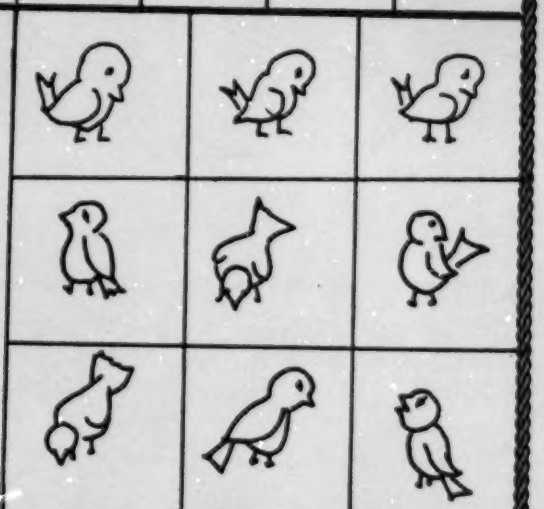
There are 16 marbles in all. There are 4 jars. How many marbles in each jar?



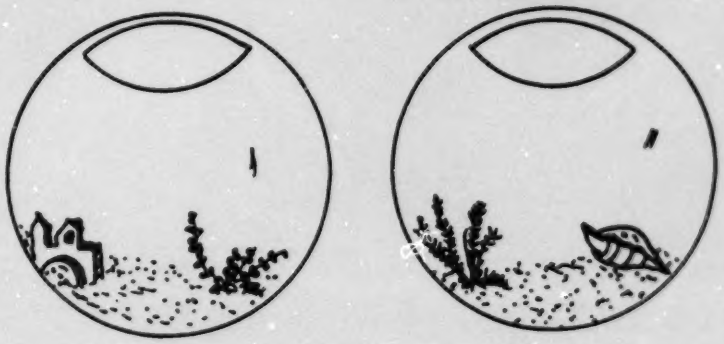


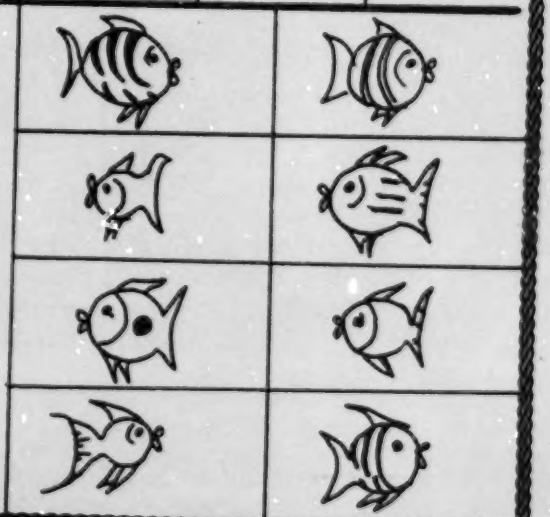
There are 9 birds in all. There are 3 nests. How many birds in each nest?





There are 8 fish. There are two bowls. How many fish in each bowl?



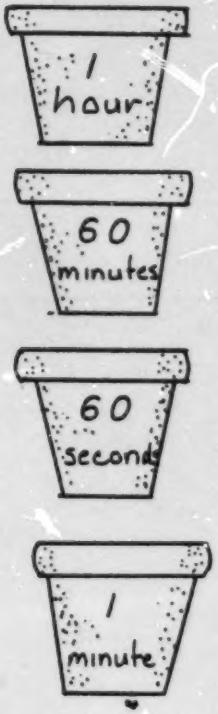


P.O. 2.10.13.01

NAME:_____ CLASS:_____ DATE:_____

Part I - Put the flower in the pot by matching the time relationships.

Part II- Fill in the missing spaces to make the sentences equal.



____ seconds = ____ minute

____ minutes = ____ hour

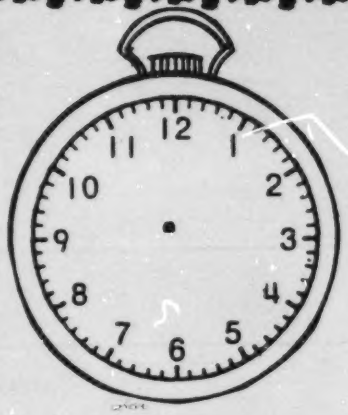
____ hour = ____ minutes

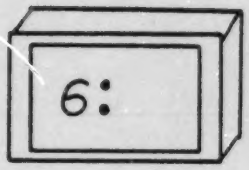
____ minute = ____ seconds

P.O. 2.10.13.02

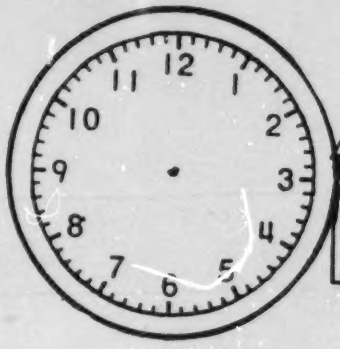
NAME:_____ CLASS:_____ DATE:_____

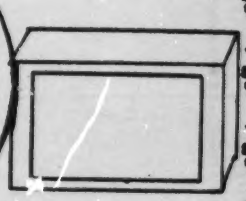
Draw the hands to show the correct time. Write the time in the digital clocks.



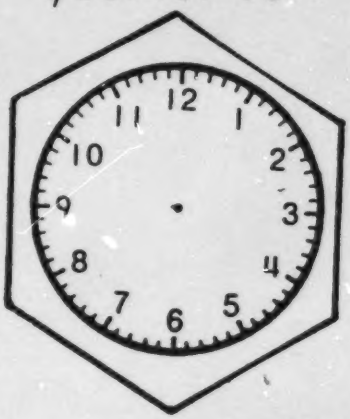


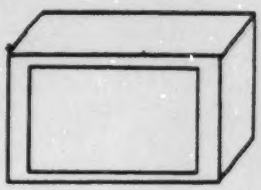
quarter to 7



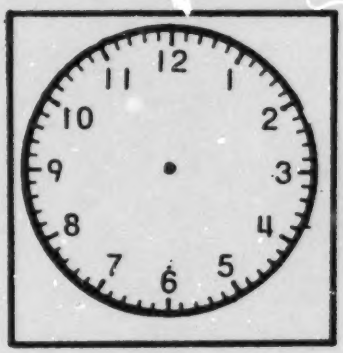


quarter after 9

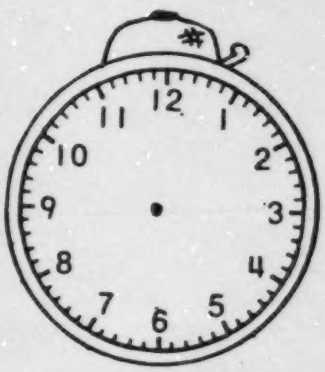


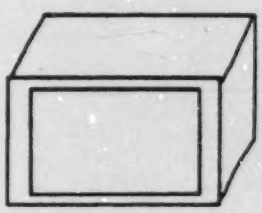


quarter after 3



quarter to 5





quarter to 1

quarter after 11

P.O. 2.10.13.02

NAME: _____ CLASS: _____ DATE: _____

Hector's mother went away for the day. She left him a list of things to do and pictures of clocks to tell him when to do them. Help Hector by writing the time next to the clock in two different ways. The first one is done for you.

1 Eat breakfast. quarter after 8 (8:15)

2 Clean your room. _____

3 Go to the supermarket. _____

4 Eat lunch. _____

5 Go to the library. _____

6 Walk the dog. _____

7 Practice the piano. _____

8 Set the table for dinner. _____

P.O. 2.10.13.03

NAME: _____ CLASS: _____ DATE: _____

Solve each problem.

Father worked on his car for 3 minutes. How many seconds did he work?

_____

Tommy walked around the block in 30 seconds. How many minutes did it take?

_____

Mother saw that her kitchen clock had stopped. She looked at her watch. It looked like this What time is it?

_____

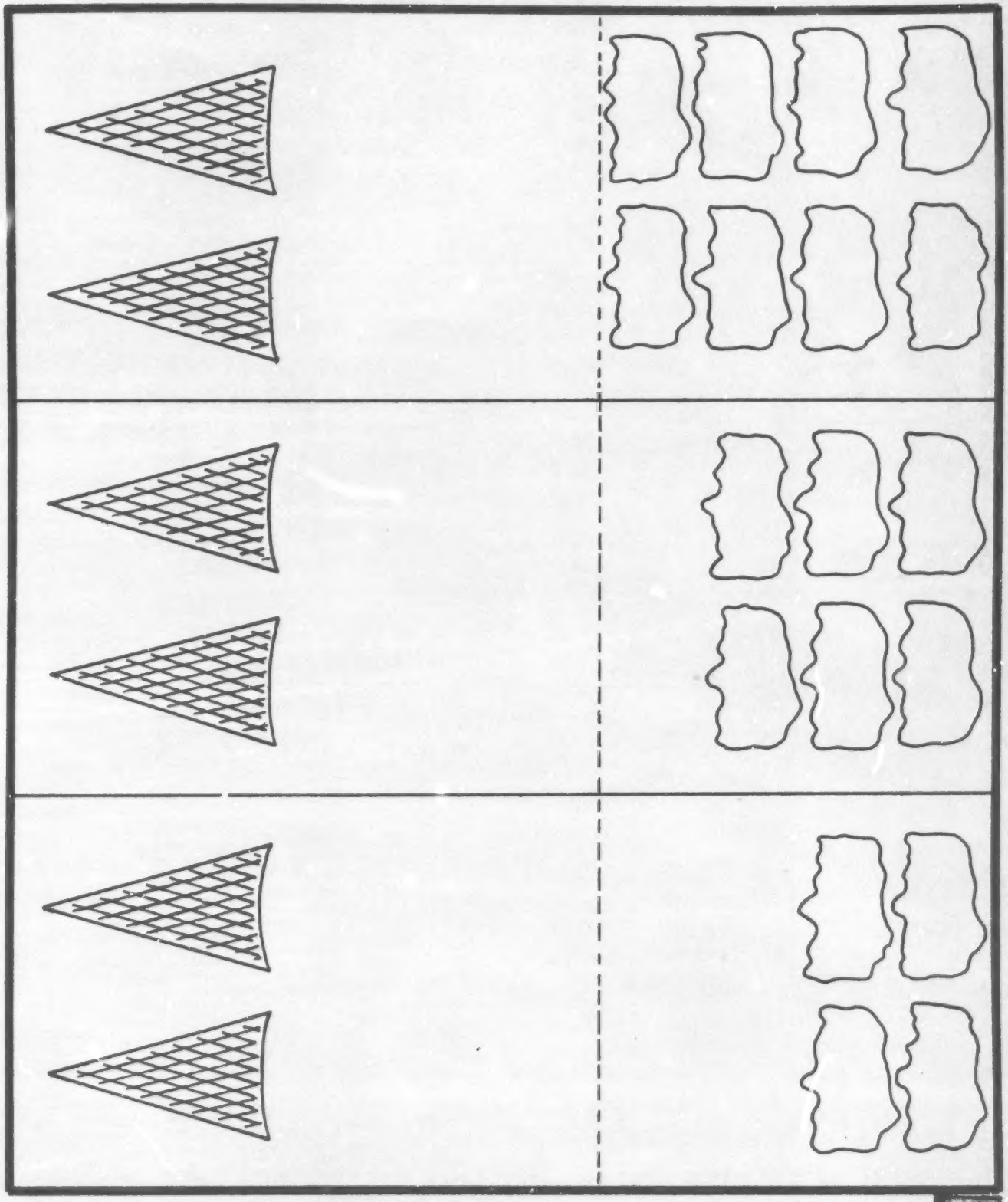
Susan ran in a school race. She finished in 120 seconds. How many minutes did it take her to finish the race?

_____

P.O. 2.06.02.01

NAME:_____ CLASS:_____ DATE:_____

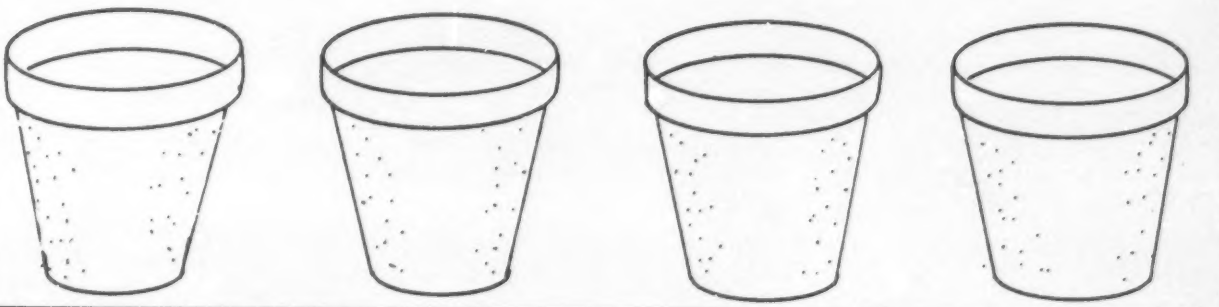
Cut out the scoops of ice cream. Paste them on the cones.
Give each cone the same number of scoops.

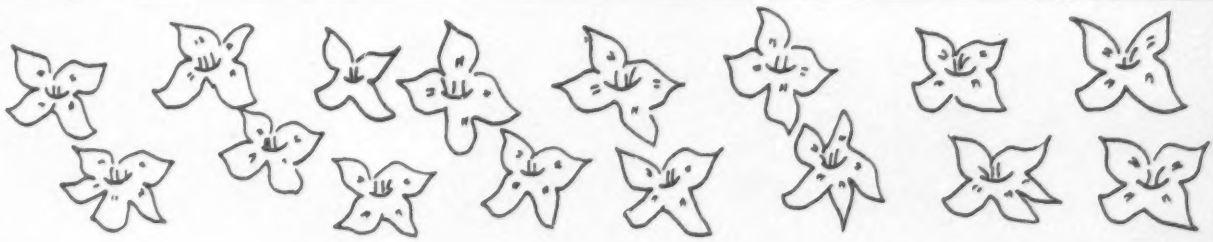


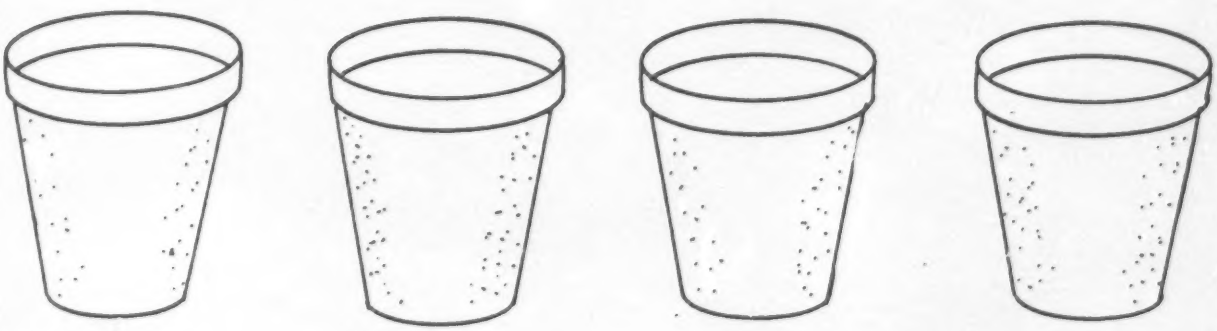
P.O. 2.06.02.02

NAME:_____ CLASS:_____ DATE:_____

Give the same number of flowers to each pot. Write the numeral that tells how many flowers are in each pot on the pot. Draw the flower stems to each pot.



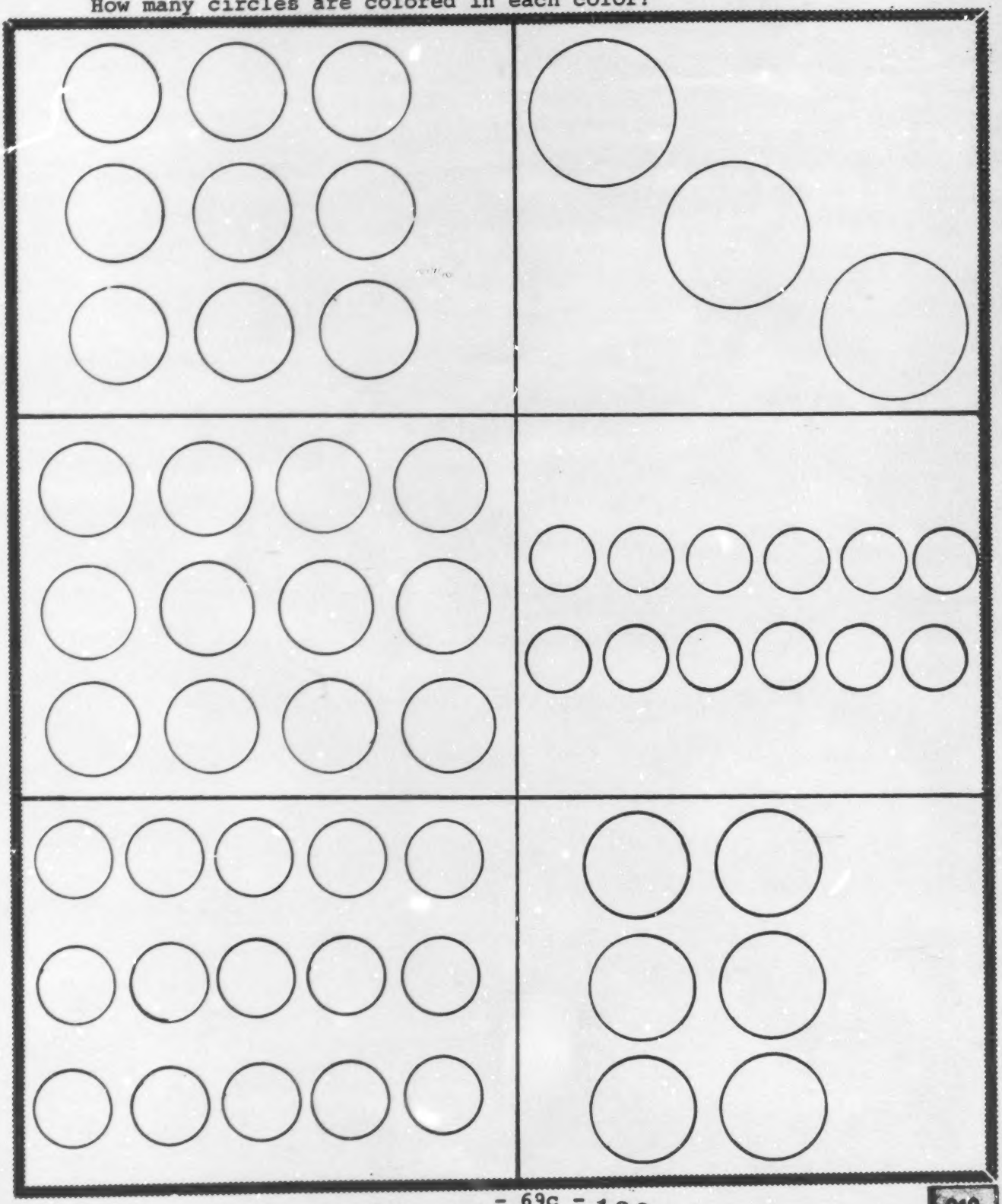




P.O. 2.06.02.03

NAME:_____ CLASS:_____ DATE:_____

Use your crayons to color the circles. Color the same number of circles red, green, and yellow in each box.
How many circles are colored in each color?



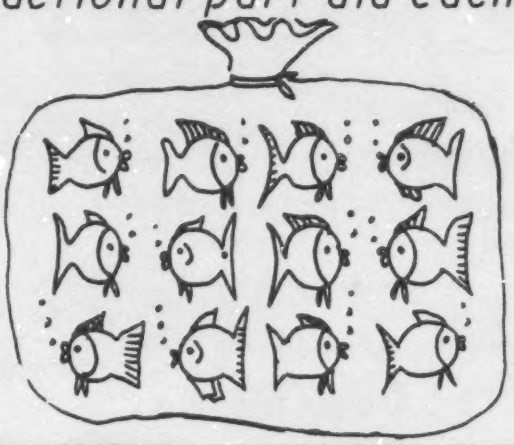
P.O. 2.06.02.04

NAME:_____ CLASS:_____ DATE:_____

Read each story problem. Answer the questions.

Bob, Bill and Ben went to the pet shop to buy fish. The salesgirl put 12 fish in one bag. When they got home the boys shared the fish.

1. How many fish did each boy get? _____
2. What fractional part did each boy get? _____



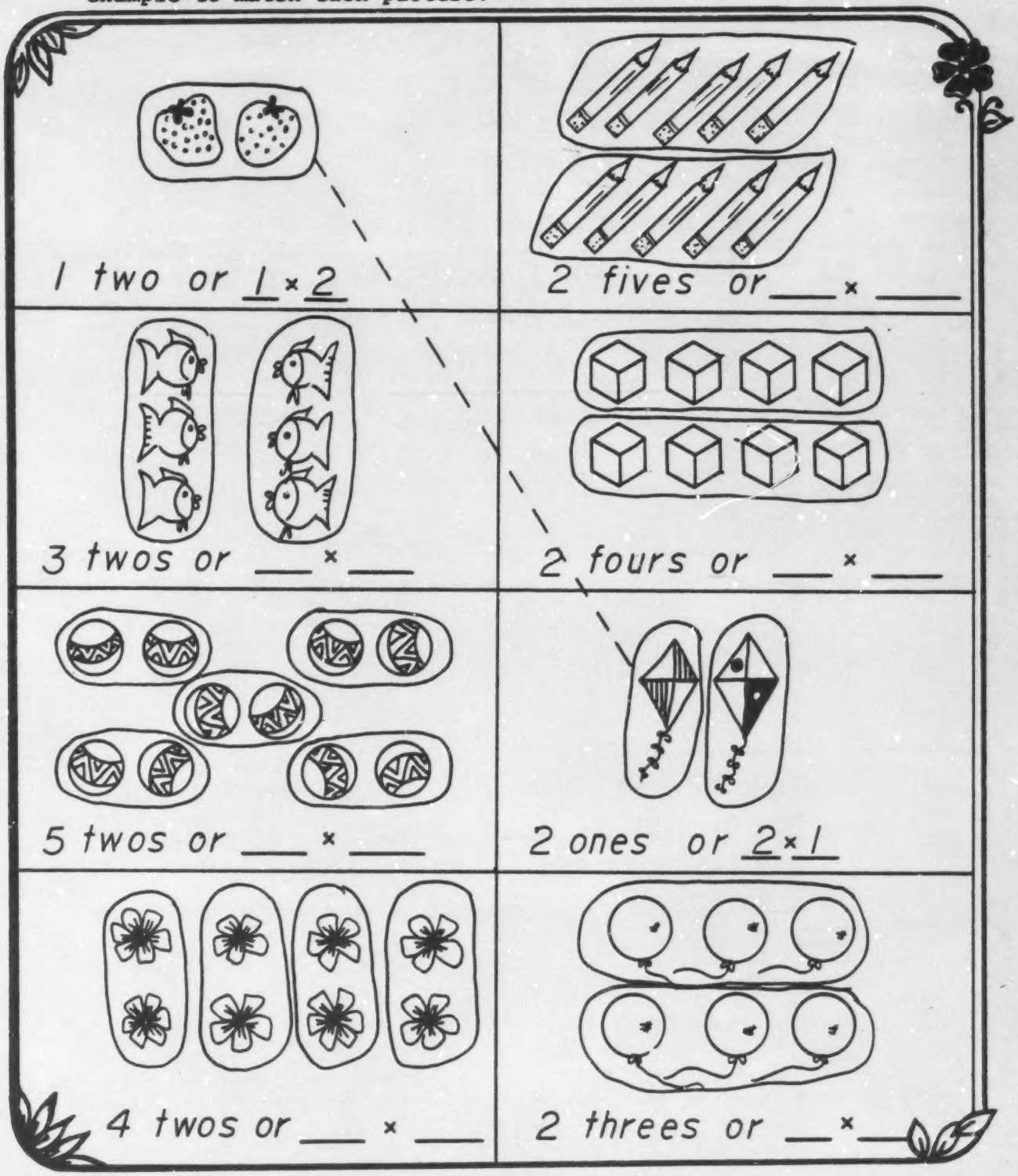
Janet and Sue went shopping. They bought 6 dolls. When they got home the girls divided the dolls equally.

1. How many dolls did Janet get? _____
2. How many dolls did Susan get? _____
3. What fractional part of the dolls did each girl get? _____

P.O. 2.04.05.01

NAME: _____ CLASS: _____ DATE: _____

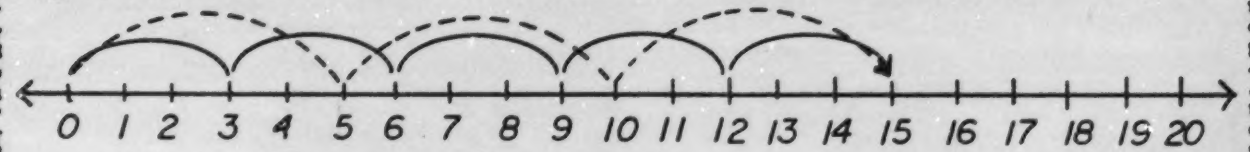
Draw the picture to go with the number sentence. Match the number sentence. Match the pictures. Write a multiplication example to match each picture.



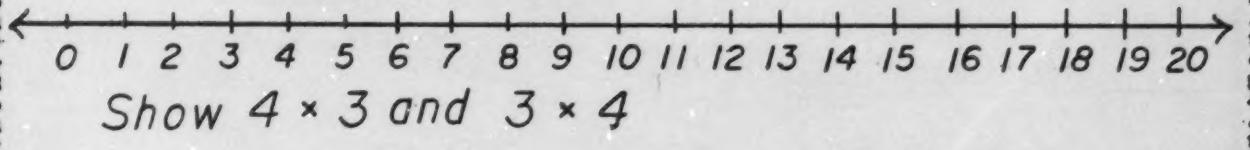
P.O. 2.04.05.02

NAME: _____ CLASS: _____ DATE: _____

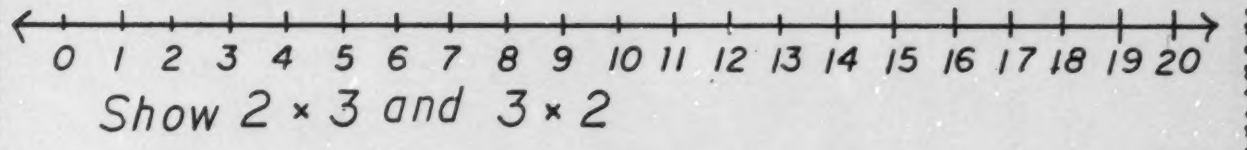
Draw the jumps on the number line.



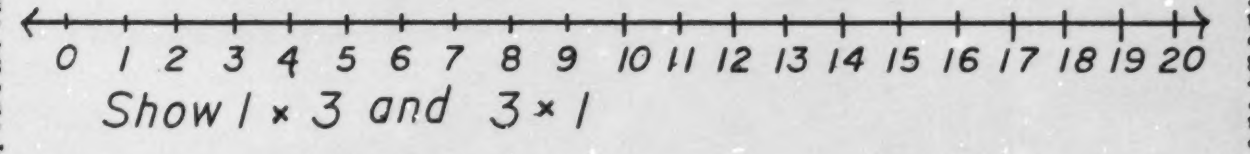
Show 5×3 and 3×5



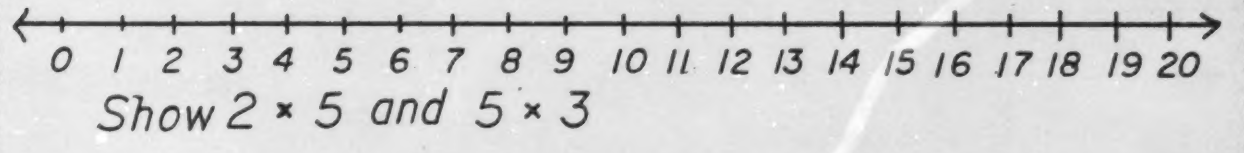
Show 4×3 and 3×4



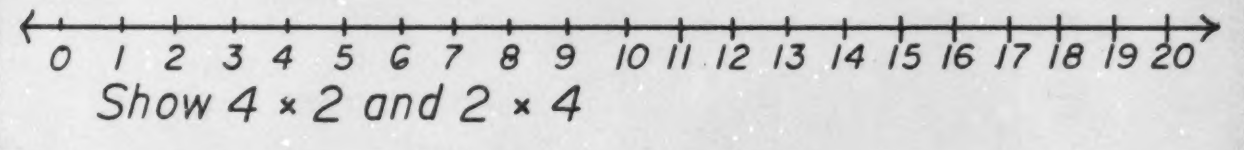
Show 2×3 and 3×2



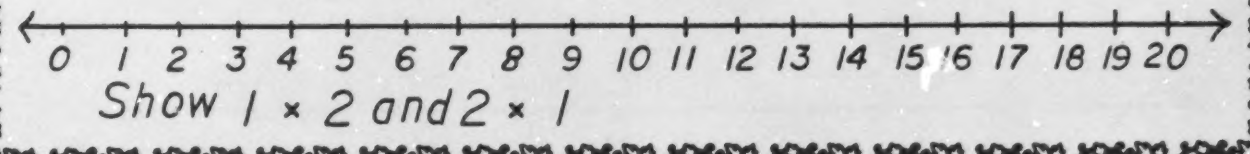
Show 1×3 and 3×1



Show 2×5 and 5×3



Show 4×2 and 2×4



Show 1×2 and 2×1

P.O. 2.04.05.03

NAME:_____ CLASS:_____ DATE:_____

Draw the pictures to go with each number sentence. Write the number sentence under the picture you have drawn.

$2 \times 4 = 8$

$4 \times 2 = 8$

Show

$4 \times 2 = 2 \times 4$

$3 \times 4 = 4 \times 3$

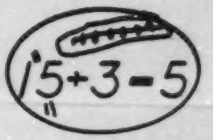
$5 \times 4 = 4 \times 5$

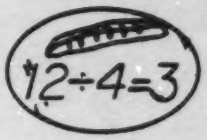
$1 \times 4 = 4 \times 1$

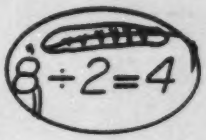
P.O. 2.05.06.01

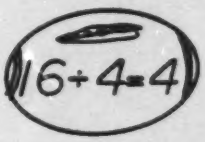
NAME:_____ CLASS:_____ DATE:_____

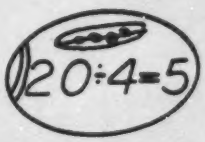
Score a goal by matching the division examples.

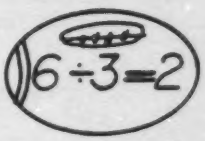


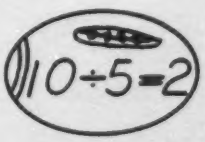


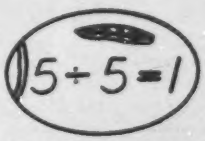


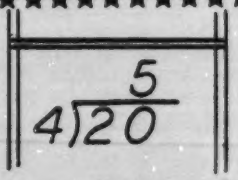


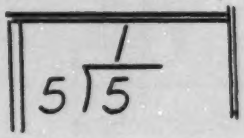


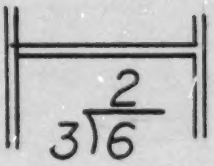


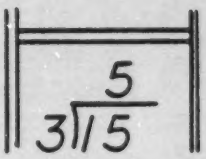


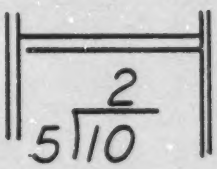


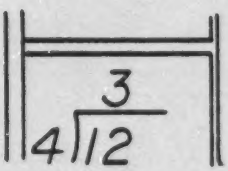


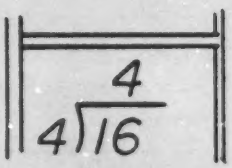


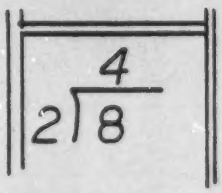








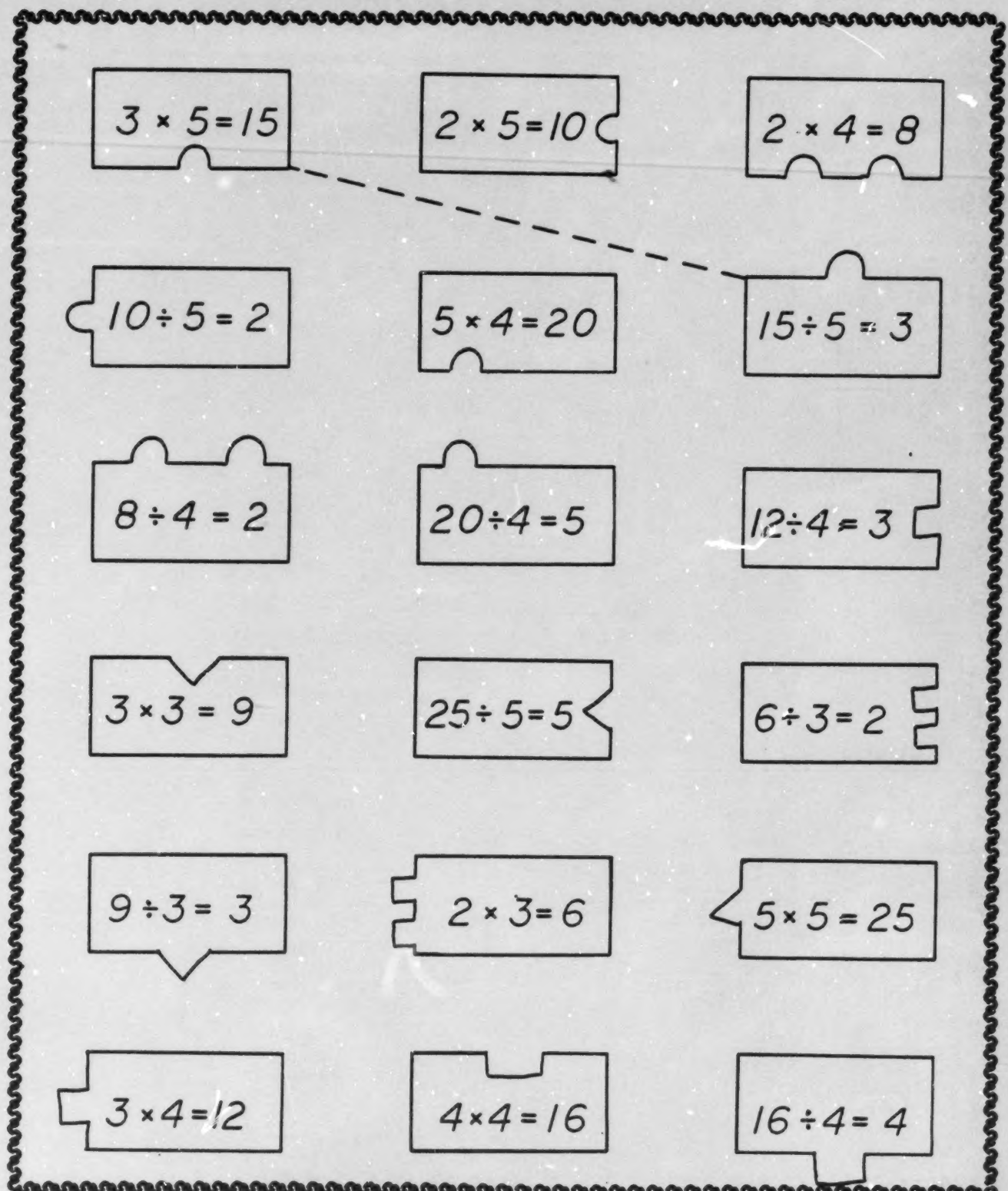




P.O. 2.02.06.02

NAME:_____ CLASS:_____ DATE:_____

Cut out the puzzle pieces. Put together each pair that shows multiplication and division are inverse operations.



P.O. 2.05.06.03

NAME: _____ CLASS: _____ DATE: _____

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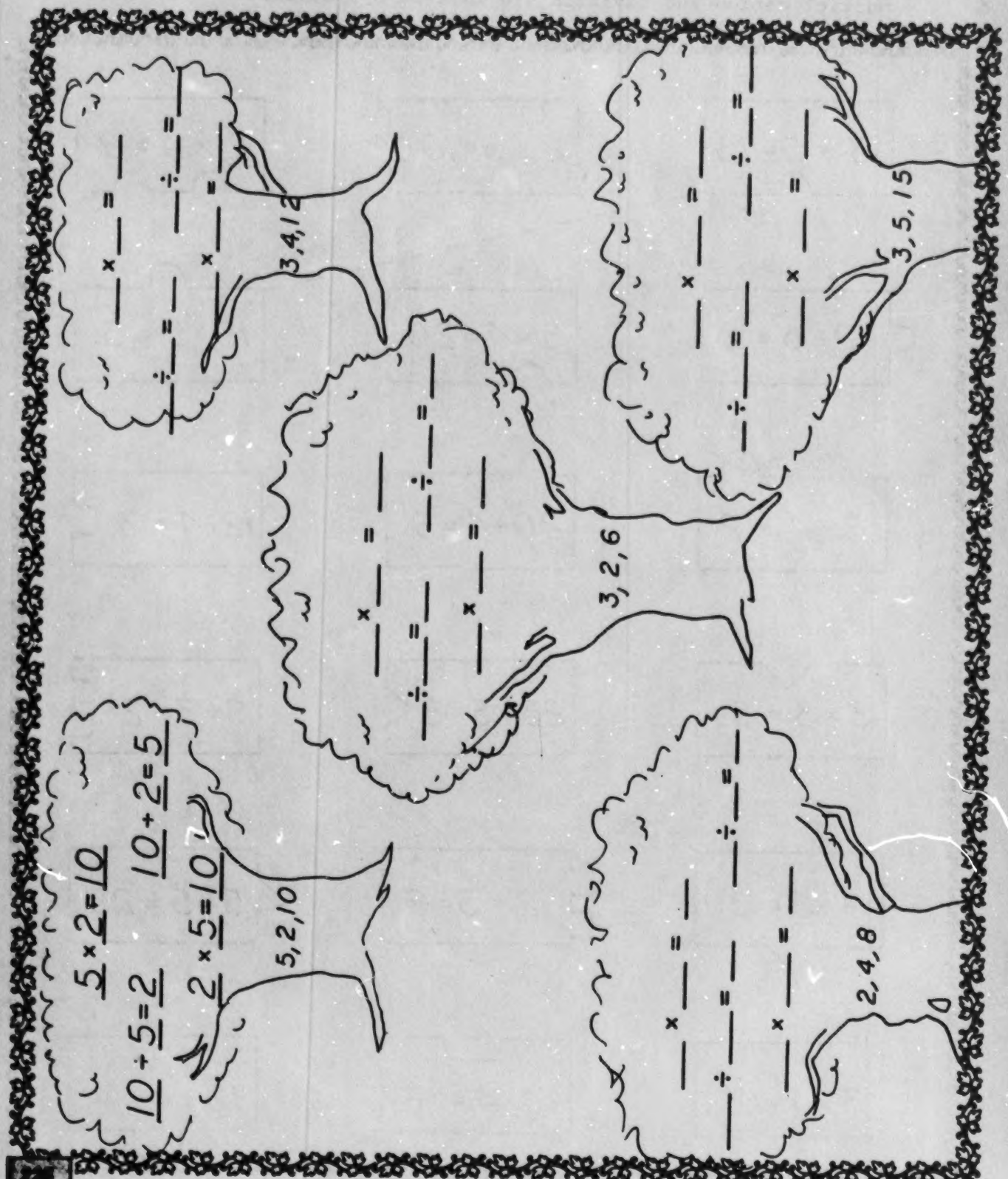
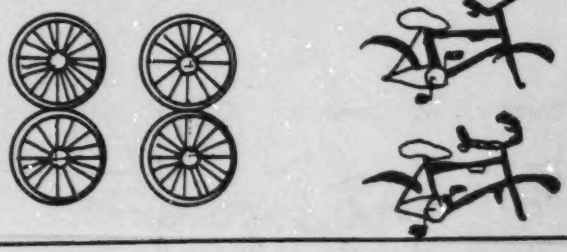
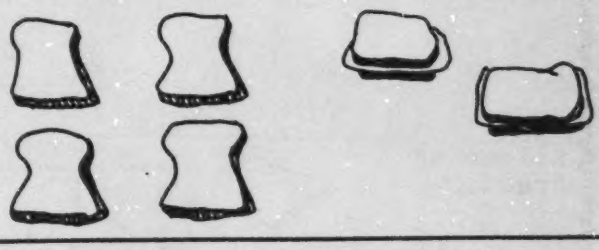
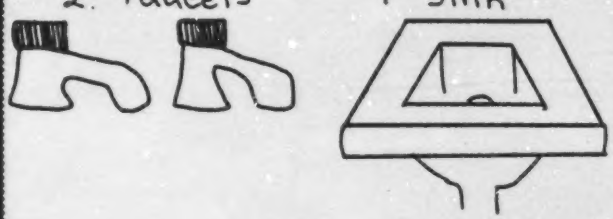
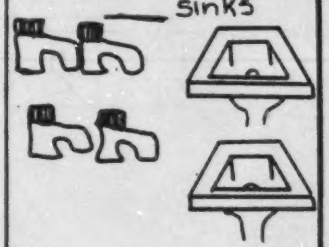
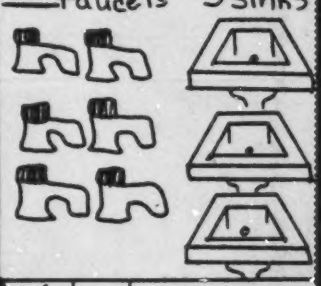
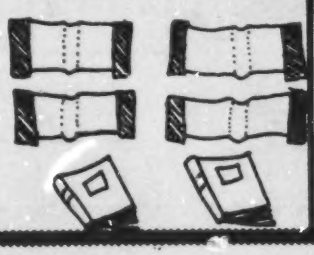
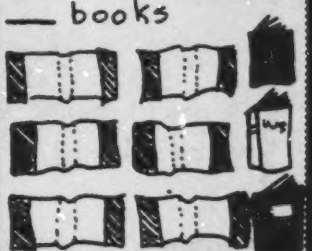
Complete the family trees using the numbers given.
The first one is done for you.



P.O. 2.12.05.01

NAME:_____ CLASS:_____ DATE:_____

Fill in the blanks to continue the two-to-one ratio (correspondence).

2 wheels 1 bicycle	4 wheels ___ bicycles 
2 slices of bread 1 sandwich	4 slices of bread ___ sandwiches 
2 shoes 1 pair of socks	___ shoes 2 pairs of socks
2 faucets 1 sink 	4 faucets ___ sinks  ___ faucets 3 sinks 
2 bookcovers 1 book	___ bookcovers 2 books  6 bookcovers ___ books 

P.O. 2.12.05.02

NAME:_____ CLASS:_____ DATE:_____

Complete the given chart to show a two-to-one ratio.

Number of Wheels

Number of Bicycles

Number of Wheels	2					
Number of Bicycles	1					

Slices of Bread

Sandwiches

Slices of Bread	2	4				
Sandwiches		2				

Long Ears

Rabbits

Long Ears		4		8		
Rabbits	1	2				6

Number of Shoes

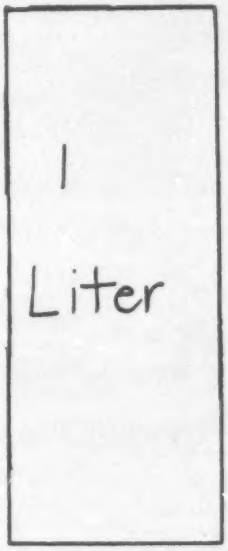
Pairs

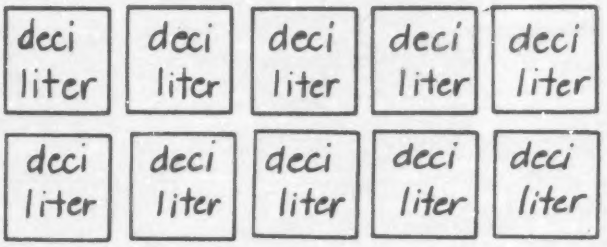
Number of Shoes		4			10	
Pairs		2	3			

P.O. 2.10.14.01

NAME:_____CLASS:_____DATE:_____

Circle the number of deciliters to equal 1 liter and then fill in the blanks.





One liter is equal to ____ deciliters.

Two liters are equal to ____ deciliters.

A deciliter is ____ of a liter.

P.O. 2.10.14.02

NAME: _____ CLASS: _____ DATE: _____

Which would you measure each with-a liter or a deciliter?

1 deciliter

making a recipe

_____

bringing ice tea to a picnic

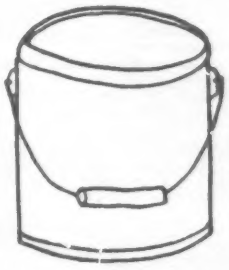
_____

milk at lunchtime

_____

a large bottle of soda

_____



a can of paint

_____

a jar of mustard

_____